SINCE 1947

FAIR RADIO SALES CO.

WORLD'S FINEST

ELECTRONIC SURPLUS

GOVERNMENT AND COMMERCIAL

MANY ITEMS AT SPECIAL SALE PRICES!

CATALOG WS-98-1

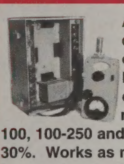
RACAL HF RECEIVER

RACAL RA6790/GM (R-2174P/URR) HF RECEIVER, microprocessor directed; operates 29.999999 MHz AM-FM-CW-LSB-USB in 1 Hz increments. LCD readouts show 8-digit frequency & 3-digit BFO relative to 455 KHz IF. Freq & Function selections controlled by two membrane keyboards. Includes crystal filters 0.4, 1.2, 3.24, 6.8 and 16 KHz + space for two additional. 50 ohm input using N conn; 600 ohm audio out. Requires 100-120/200-240 V 43-420 Hz; 5.3x19x20, 37 lbs sh. USED-good reception, but functions erratic, $1095.
R-2174-VLF, above with VLF range option, $1195.00
MANUAL for R-2174P/URR, parital repro, $45.00

UHF PRESELECTOR

F-1506/G UHF TUNABLE BANDPASS FILTER /PRESELECTOR covering 225-400 MHz dial tuned. Consists of Lark Engr. FX4000-089 filter with N conn in rack-mount package. 5x19x18, 25 lbs sh. USED, $95.00

GRID DIP METER



AN/PRM-10 TEST OSCILLATOR, determines resonsant frequencies of tuned circuits or frequency of RF signals. Uses seven plug-in coils covering 2 to 400 MHz in ranges 2-5, 5-10, 10-22, 22-45, 45-100, 100-250 and 250-400 MHz. External AM about 30%. Works as mini- receiver or xmitter when tuning head and coil are placed near circuit. Results indicated on meter or audiably in earphones. Includes coil set, tune head, power supply and case. Requires 115 VAC 50-1000 Hz; 8.5x11.5x5.5, 22 lbs. USED-CHECKED, $150. Manual, partial repro, $8.50

2250 VCT 575 MA

1250 WV TRANSFORMER from 115/230 VAC 50-60 Hz primary; sealed -type 4.3x6x4.8, 30 lbs sh. USED, $50.00

OPEN-FRAME TRANSFORMERS with 115 VAC 60 Hz primaries, NEW:
#430-9001, output 13 volts 20 amps, 4x3.5x3.8, 10 lbs sh, $19.95
#430-7001, 14 V 35 A, 3.8x4.3x4.3, 14 lbs, $29.50

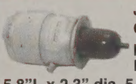
MEGOHM METERS

AN/PSM-43A OHMMETER SET, portable unit measures insulation resistance from 0 to 100 megohms in electrical equipment and circuits. Primary component is ZM-21D megger made by JFC which produces 500-550 volts no-load using handcrank generator. Meter shows 0-1000-Infinity ohms. Set also includes probes, transit case and operator's manual. Meter 6.3x5x4.5, 16 lbs sh. UNUSED, $85.00

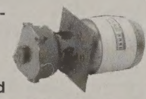
+ +

GENERAL RADIO 1644A MEGOHM BRIDGE for sensitive measurements of insulation resistance of cables, transformers, etc; voltage and temperature coefficients; volume and surface resistivity of solids or liquids. Ranges 1 k-ohm to 1000 T-ohm (10 to 15th power) in ten steps; +/-1% accuracy to 1 T-ohm possible. Test volt ranges: 10-20-50-100-200-500-1000 V. Requires 105-125/210-250 VAC 50-60 Hz; 12.5x12.8x7.8, 24 lbs. USED-CHECKED, $375.00

500 PF VACUUM CAP

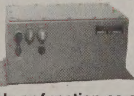


JENNINGS CSV1-500-5 VACUUM CAPACITOR, 5 to 500 pf 5 KV peak; 3/8"L x 1/4" dia tune shaft. Built-in mount flange; overall 5.8"L x 2.3" dia, 5 lbs sh. UNUSED, $220.00



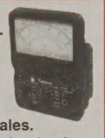
JENNINGS CVDG-1000-15 VACUUM CAPACITOR ASSEMBLY with 24 VDC notor drive tuning 10-1000 pf capacitance, 15 KV peak. Drive has 5/16" dia splined shaft for gear meshing. 5"x5" mount flange, o/a 9"L; 12 lbs sh. USED-tested, $225.00

24 VDC 35 AMP SUPPLY



PP-4679/URC-35 POWER SUPPLY / BATTERY CHARGER, external supply used to provide 24 VDC 35 amps for AM-3008 HF power amp from 115 VAC 50-400 Hz or function as charger for silver-cells. Has On-Off switch, three fuses and charge indicator. Transformer assembly also used in AM-3007 amp. 6.5x14x8.8, 34 lbs sh. USED, $35. UNUSED, $55.

SIMPSON 260 VOM



VOLT-OHM METER, popular Series AFP-1 VOM has ranges 2.5-10-50-250-1000 V AC-DC plus jacks for 5000 V AC-DC probe. Current: 1-10-100-500 MA plus jacks for 50 ua and +/-10 amps. Resistance: Rx1/ x100/ x10000 ohms. Requires batteries for ohms scales. Units electronically complete, but missing back case; no probes. (Use the case off your old 260 !) 5.3x7x2.5, 4 lbs sh. #NC-260, unused, $45.00

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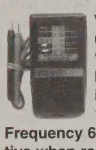
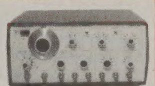


VOLTS, FREQUENCY, POLARITY INDICATOR, handy safety item allows "quick" test of an unknown electrical line to determine its general characteristics. "Glow" lamps show Volts 28, 115, 250 DC/220 AC, 500 DC/440 AC; Frequency 60 or 400 Hz; Polarity red-black Negative when red & black probes are inserted into line. 2.8x5.4x2.5, 2 lbs. AUL Model 1604, NEW, $17.95

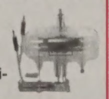
WAVETEK GENERATOR



WAVETEK 145 PULSE /FUNCTION GENERATOR, operates over 0.0001 Hz to 20 MHz in ten ranges. Wave outputs: sine, +/- square, triangle. Voltage Controlled Generator (VCG) allows sweep of frequency over 1000:1 range. Pulse selectable and variable to 30 V p-p for TTL and ECL. Outputs Continuous, Triggered and Gated plus Normal, Delayed & Double Pulse. Period range 50 ns-10000 S in 10 steps. Width 25 ns-1 ms in 5 steps; delay 50 ns-10 ms 6 steps. Requires 105-125/206-250 V 48-400 Hz; 5.3x11.5x10.5, 13 lbs sh. USED-CHECKED, $195.00

WEIRD TUBE

no markings but looks like some kind image or photomultiplier with 14-pin basing. 4.8"Hx 2.3 " dia glass + two 1/2"L contact pins opposite each on tinted end of cylinder; 1"L glass extension from side. Curiosity tube for experimenter / collector! #XTUBE-98, $20.00



VT-158 OSCILLATOR used in WW-2 TPS-3 radar; printed specs for this "secret" tube hard to find. Eimac or Pioneer mfg; look "unused" /not original boxed. 7"Lx8.5"Hx3.5" dia; $185.

ORDERING INFORMATION SEE PAGES 2 & 13

MINIMUM ORDER $10.00 + SHIPPING

Fair Radio Sales Co.

P.O. BOX 1105 • 1016 E. Eureka St. • Lima, Ohio 45802
419-223-2196/227-6573 • 24 Hr. FAX 419-227-1313
E-MAIL: fairadio@wcoil.com WEB PAGE: http://www2.wcoil.com/~fairadio

CATALOG INFORMATION

A supplemental catalo[g] WS-98-2 will be sent in the fall

AIRPAX RTM

MINIATURE RUNNING TIME INDICATOR, mechanical 4- digit 115 V 60 Hz. 0.8" H x1.1"W bezel; fits 0.6" sq hole. #K49201P2 NEW $12.95

PRESSURE GAUGE 0-60 PSIG & 0-4 KG/CM; 2.1" rd w/ 1/2" dia fitting. #PG-60PSI, NEW, $5.50 #M6000-PSI, 0-6000 PSI 4" dia 270 degree scale;7/16"di fitting. O/a 6"dia. NEW, $14.

0-50 NULL METER FS=200 UA, 4.2"H X4.5"W; Simpson-style. NEW, $10.

Modutec Meters

1.8"H X 2.8" W bezel; fits 1.6" dia hole. Used. Specify:
0-150 VAC, $8. 0-40 VDC, $8.
0-150 AMP DC w/ shunt, $10.
0-50 AMPS AC w/xformer $12.

DAYTONA ATD METER FS=200 UA DC, red face scale for metal detector; 2.6"Hx3"W, Korean. NEW $2.
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-20 to +3 VU SCALE meter, FS=250 ua; 1.9X1.8" Korean mfg. #DPB-48, NEW, $3.00

a b c

ES=25 UA DC SIMPSON (b), 25-0-25 Degrees, 2.5", $9.
0-50 UA DC MODUTEC (c), 1.8"Hx2.8"W. NEW, $8.95
0-250 MA DC GE (c), 2.3"H x 2.8"W, NEW, $9.95
0-200 VDC, JEWELL (c) 2.6"H x 3"W; NEW, $7.95
0-15 AMPS AC SIMPSON (b), 2.5" sq. USED, $12.
0-100-200 AC AMPS FS=5 A GE-YOKO (a) 2.5" sq. $8.95
0-30 VAC GE DW-91 (a), 2.8" x2.8". NEW, $8.00
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TV-2 TUBE TESTER METERS:
Screen Volts, used, $10.
Grid Bias Volts, used, $10.
Filament Volts, used, $10.

0-800 AMPS DC FS=50 MV; 3 1/2x 3 1/2; fits in 2 3/4" dia hole. Mercer Electr. NEW, $7.

DB Meters

-7-0-+7 DB, FS=501.5 ua; 3.5" rd blk face sealed. NEW, $5
-4-0-+6 DB 1 MW, FS= 1 MA; 2.5" rd sealed, used, $4.00
-6-0-+3 DB, FS=200 ua 2.5" rd sealed; used, $4.95
15-36 DB MW and 0-50 V out put Level scales; FS=1MA DC, 3.5" dia. USED, $5.95

AC Frequency

60 / 400 HZ REED FREQUENCY METER two reeds--one 60 Hz, one 400 Hz--vibrate when freq approached. 2" dia; fit 1.5" hole. #FM-TS382, used, $9.95
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JBT 60 HZ REED LINE FREQUENCY METER dual 48-52 and 58-62 Cycles / Second scales each w/ 5-reeds; 3.5" dia. #30-FHXX., NEW, $34.00
+ + + + + + + + + + +
5-REED FREQUENCY METER 59-63 Hz; 3.5" dia., 1 lb sh. Aero #6915-134, NEW, $17.95

47-84 METER ASSORTMENT, five U.S. mfg meters 2 1/2" x 3 1/2" - up; mixed odd scales, FS-100 ua and up--no choice; 3 lbs sh. $10.00

WESTON 1941 or Triplett =; 4.3"Hx 4.8"; for Western Elec. USED, $10.
0-5 AMP DC or 0-500 A-DC (FS=50 MV).
Weston, NEW: 40-60 VDC,$15
0-75 ADC, FS=50 MV, $12.00

POLARAD METERS, 4"wx3.8"H. #M2/TV13, FS= 100 V DC, 0-100-500 scale, $8.95
#M4/TV-13, FS=150 VDC, Beam 0-1500-5000, $8.95

ZERO CENTER FS=500-0-500 UA DC; 3.5"W X 3"H HOYT mfg. Scale: -50/-100-0-+50;/+100 MA DC, -25-0-+25 VDC. NEW, $9.95
#M1/FLUKE, FS=100-0-100 ua mirrored scale; indicated 1-0-1 / 500-0-500. 4.5"Wx 4.3"H, used, $10.95
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#M15V-12A MATCHED METER SET with 3.5" dia sealed meters 0-15 VDC and 0-12 ADC w/ shunt. USED, $20.00

0-200 VDC WESTON 2041; 4"Hx4.5"W, NEW, $12.00

SIMPSON BENCH METER, 0-250 MA AC 3.5"x3" meter in plastic slanted 4x 4.2 x 3.8 case: w/ black& red terminals + fuseholder, USED, $16.95

AC Voltmeters

0-7.5 VAC 3.5" rd, NEW $6.95
0-10 VAC 2.5" rd, NEW, $5.95
0-10 VAC 3.5" rd , USED, $6.
50-300 VAC 2.5" rd, USED, $9

VTVM METER 1-10 VAC scale expanded with 3.5 V centered; also 0-20 DB. 4.5" rd. #0899, NEW $6.95

DC Milliamps

FS=1 MA, 0-5 V/50 MA scale 3.5" rd clear case. USED $5.
- - - - - - - - - - - - - - - -
0-1 MA DC, 2.5" round; various mfg. USED $5.95
0-1 MA DC, 3.5" rd. NEW, $10
- - - - - - - - - - - - - - - -
1-0-1 MA DC, 2.5" rd sealed; various mfg. USED, $5.95
- - - - - - - - - - - - - - - -
FS=5 MA DC, 0-150 VDC scale 3.5" sq. USED, $6.95
- - - - - - - - - - - - - - - -
FS=25 MA DC, 0-25/100/200 scale; 2.5" rd. USED, $5.95
- - - - - - - - - - - - - - - -
0-30 MA DC, 2.5" rd; sealed Phaostron. UNUSED, $6.95
- - - - - - - - - - - - - - - -
0-100 MA DC, 2.5" rd; various mfg. USED, $6.95
- - - - - - - - - - - - - - - -
0-100 MA DC 3.5" rd.; sealed, various mfg. UNUSED, $9.95
- - - - - - - - - - - - - - - -
50-5-50 MA DC, 3.5" dia; Weston 301 or =, UNUSED $7
- - - - - - - - - - - - - - - -
150-0-150 MA DC, 3.5" square Weston. UNUSED, $7.95
- - - - - - - - - - - - - - - -
100-0-100 MA DC, 3 1/2" rd Weston 301, USED, $5.95

DC Voltmeters

FS=2 VDC, 0-20/80 MA scale; 2.5" rd sealed. USED, $5.95
- - - - - - - - - - - - - - - -
0-3.5-140 VDC, Low-High V terminals; 2 1/2" rd black face; IS-116. UNUSED, $12.
- - - - - - - - - - - - - - - -
FS=5 VDC, scale 0-1.5 A & 0-300 MA; 2.5" rd. USED, $5.
- - - - - - - - - - - - - - - -
0-100 VDC, 3 1/2" rd clear plastic case. USED, $5.95
- - - - - - - - - - - - - - - -
0-150 VDC, 3.5" round; Burlington 431. UNUSED, $7.00
- - - - - - - - - - - - - - - -
0-15-600 VDC, 2 1/2" rd black face; w/ mult. code. USED $6.
- - - - - - - - - - - - - - - -
0-500 VDC, 3.5" rd; various mfg. USED, $8.95
- - - - - - - - - - - - - - - -
0-600-1500 VDC, FS=1 MA DC; 2.5" round. USED, $5.95
- - - - - - - - - - - - - - - -
0-1.5 KV DC w/ ext- resistor; 3.5" sq Weston. USED, $14.
- - - - - - - - - - - - - - - -
0-20 KV FS= 1 MA; 2.5" rd black, $7. 3.5" rd white, $8.

AC Ammeters

50-300 MA AC, 2.5" rd sealed. UNUSED, $10.00
- - - - - - - - - - - - - - - -
Westinghouse A351, 3.5" sq:
0-10 AMPS AC, used, $14.50
0-20 AMPS AC, used, $15.00
- - - - - - - - - - - - - - - -
FULL SCALE = 5 amps AC; transformer required for indicated scale (not available):
0-125 A, 3.5" dia. $9.00
0-150 A, 2.5" dia. $8.00
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FS=1 AMP AC, scale % Rated Current; 3.5" rd sealed, $5.95

STORE HOURS:

9 A.M. TO 5:30 P.M.
MONDAY THRU FRIDAY
9 A.M. TO 1 P.M. SATURDAY

TERMS

PRICES NET, F.O.B. LIMA, OHIO SEND MONEY ORDER, CERTIFIED CHECK, VISA, MASTER CARD, OR DISCOVER with PURCHASE ORDER for IMMEDIATE SERVICE. We reserve the right to hold an order accompanied by personal or company check until after check clears the banks.

MINIMUM ORDER

$10.00 + SHIPPING COSTS Include sufficient money for shipping charges. (UNUSED-PAYMENTS RETURNED AT ONCE.) Otherwise we will hold order & advise charges.
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Order, Warranty, and Return Policy Information page 13!

DESCRIPTIONS

All material offered in this catalog is in "Used-Complete" condition, unless qualified and/ or noted as "Reconditioned", "Unused," or "New."
Merchandise is not operationally checked unless specified as "Checked." Equipment described as "Reparable"--meaning "able to be repaired"-- is electro-mechanically complete, but requires some trouble-shooting by the customer.

DC Micro-Amp

0-50 UA DC, 2.5" rd sealed. USED, $9.95
- - - - - - - - - - - - - - - -
FS=50 UA DC, scale -30 -+150 w/ "O" center; 2.5" rd sealed. #TRC30150, USED, $4.
ES=50 UA DC, 0-center Red-Green-Red scale; 2.5" rd, $7.
- - - - - - - - - - - - - - - -
FS=100 UA DC, sealed USED: 2.5" rd, 0-500 & 100%, $5.95
3.5" rd, Red-Green-Red, $6.
- - - - - - - - - - - - - - - -
ES=100 UA, 0-center Null scale; 2.5" rd. sealed. $6.95
- - - - - - - - - - - - - - - -
0-200 UA DC, various USED: 2.5" rd, $6. 3.5" rd, $7.
- - - - - - - - - - - - - - - -
0-200 UADC and -8-0-+6 DB, 2.5" rd. sealed. NEW, $5.95
- - - - - - - - - - - - - - - -
ES=500 UA DC, 0- center scale 1-0-1 / 30-0-30; 2.5 " rd sealed. UNUSED, $6.95

1 3/4" SQ for 1.5" holes:

#6901, 500-0- 500 UA DC, $8.
#M-FRR59, FS=500 UA DC -12 -0-+22 db black, USED, $12
#M-ARC38, FS=2 MA DC, 0-10 scale, white face, USED, $9.
#0372, FS=12.5-0-37.5 UA DC, -50-0-+150 scale. NEW, $9.95

DISCLAIMER

Items in this catalog are "used" and/ or "obsolete" equipment which may not conform to current Federal laws governed by the Federal Communications Commission (FCC), the Occupational Safety and Health Agency (OSHA), the Environmental Protection Agency (EPA), and other federal and state governmental agencies.

Furthermore, many items in this catalog have potential to produce harmful and even lethal electrical voltages. Proper and safe use of any item purchased is the customer's sole responsibility.

The customer assumes all liability and holds Fair Radio Sales Co., Inc. harmless for compliance to current and future laws pertaining to the use and possession of equipment purchased, for any personal injury liability arising from improper and unsafe use of purchased equipment, and for any property damage caused directly or indirectly by equipment use.

DC Ammeters

FULL SCALE = indicated:
10-0-10 ADC, 2.5" rd, $9.95
20-0-20 ADC, c1944 vehicle battery meter, 2.5" rd, $7.95
0-25 ADC, 3.5" rd. NEW $12.
0-30 ADC, 2.5" rd. NEW $12.
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EDGEWISE METER 0-8 A DC; 1.9"W x 3/4"H; #D2588, $7.00
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DC AMMETERS, FS= 50 MV:
0-15 ADC 3.5" rd black, $7.
0-30 ADC 2.5" rd, used, $6.95
0-150 ADC 3.5" rd., NEW, $8.
50 MV 30 amp SHUNT, $5.00

RF AMMETERS

0-10 ANT-CURRENT (750 RF MA), 2.5" rd. USED, $10.
0-100 RF MA, 2.5" rd. $10.95

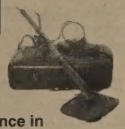
ROENTGEN METER, FS=100 UA, 0-200-500 scale; limit set pointer for alarm light. 4"Hx 4.6"W. #M1-CP95, used, $10.

MAGNAHELIC DIFFERENTIAL PRESSURE GUAGE for air & compatible gases (no hydrogen!). Measures pressure as 0-2 "of WATER, 0.05 step; 15 PSI max. +/-2%; 20 -140* F range. Two pair 1/8 NPT high & low taps; 4.8" dia x2.3"D; 2 lbs. Dwyer #2002C, NEW, $17.

0-135 VDC 15 Amps

PP-1659A BATTERY CHARGER, used to charge storage batteries; produces unregulated 0-135 VDC 15 amp output from 115/230 VAC 50-60 Hz 15 amp input. Has 2.5" dia meters 0-150 VDC and 0-20 amps DC, Coarse and Fine 12-step controls, plus 115/230 V input selector witch. Input and Output each have circuit breaker; with power cord. 12x11x12, 60 lbs sh. USED, $49.50

PSS-11 Detector



AN/PSS-11 METAL DETECTOR (Polan P153) transistorized unit uses 2500 Hz signal in mutual inductance bridge circuit to detect metal objects that cause an imbalance in the 9"x11" search head's magnetic field; disturbance is heard in operator's headset. Handle adjusts 29"-57" L. Also control pack with canvas bag & 7.3x24.5x16.5 transit case. Requires 7.3 to 10.8 VDC battery (BA-1389 5.1"Lx 0.6" dia) 35 lbs. USED-not tested, $75. MANUAL, repro, $10.

Compass Indicators

SPERRY MARINE INDICATOR MARK XX MOD.2, part of shipboard gyro-compass repeater system. Has 8" dia 360 degree scale in 1° increments under glass and uses two Size-5 115 VAC 60 Hz selsyn transmitters. One drives inner directional indicator; second outer degree scale. With 7 ft cable & special connector; 10" dia X 8.5"D; 36 lbs sh. UNUSED, ~~$250~~. $185.

BENDIX IN-4D LEFT-RIGHT INDICATOR, 3" dia WW-2 vintage instrument shows wing-tip position relative to ground; requires 24 VDC. 2 lbs. $15.00

DOLLAR DAZE

PLEASE ORDER BY NUMBER. Unit prices only as indicated. Look for more DOLLAR DAZE throughout this catalog.

45-85 3AG 1 amp FUSES, 10/$1.00; SLO-BLO 3AG 1 amp; 10/$1.25

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41-81 LOUD BUZZER HORN as used in smoke alarms; 2" dia x1.3". 6 VDC $1.25 ea; 12 VDC $1.35 ea; 115 VAC $1.45

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52-90 COMPUTER GAME SWITCH BOX; select "TV" or "computer". 300 ohms, $1.50

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51-89 KEY-LOCK for cabinets, etc. Key turns 4.8" long shaft and catch tab. NEW, $1.95

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48-87 PHONE MODULAR SPLITTER, fits wall mod jack; adds 2nd outlet for computer or answer machine. $1.95 2/$3.

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55-95 SWR BOARD #PTSR006AOX for HyGain radio; no info. $1.

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53-90 AC LINE CABLE ADAPTER f/ 3-cond plug to 2-cond outlet w/ground; grey. 3 for $1.

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47-86 RUBBER EQUIPMENT PADS, 5/16" dia self-adhesive; 40 per sheet. 2 sheets for $1.50

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54-91 NOISE-ACTIVATED SWITCH with sensitivity adjust and mic; 6 VDC input, 2"x2". $1.25 ea

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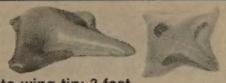
23-77 BRASS COUPLINGS for joining 3/8" dia X 3/4" long shafts, 2 for $1.00

LIFTING BODY" Balloon



Distress-orange inflatable "manta ray" shaped balloon measures about 8 feet nose-to-tail, wing-tip-to-wing-tip; 3 feet at thickest. Intended to be helium-filled to raise a wire antenna for air-sea rescue transmitter. Slight breeze lifts it much easier than round balloon even when air-filled. Nice experimental or promotional item; 3 lbs sh. #SEB-42-ALV, unused, $25.

BOX KITE also used for lifting wire antenna; has 15"Wx12"H distress orange plastic poly-vinyl panels on metal frame. Stands overall 36"H x 15" square; sturdy frame can be re-covered with silk or similar light fabric. Includes panel repair kit; 3 lbs sh. #SEB-42ABK, unused, $24.00

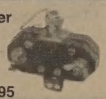
Antenna - Tether Wire

306 FOOT SPOOL of vinyl-covered braided #22-size intended for use with above; usable on the ground as long-wire antenna also. On spool; 3 lbs. #SEB-400X3, unused, $12.95

Ground Plane Base

MP-68 MAST BASE, makes ground plane antenna when used with combinations of AB-21--24 or MS-116--118 whip masts installed as three radiating elements plus one vertical. Has center 3" dia ceramic feed-thru insulator with UHF connection and sockets for elements. Clamp on bottom allows installation on top of 1.6" dia masts like AB-35 (RC-292) or MS-44 (AB-155).
13"H x 5"W x 5"D, 5 lbs sh. USED, $29.95
AB-21,-22,--23,-24 mast sections, USED, $3.25 each
MS-116,-117,-118 MAST SECTIONS, used, $3.50 ea

Doublet Insulator



IL-4 /GRA-4 INSULATOR, used at center of doublet antenna; has two wing-nut terminals for wire, one N connection and tab for guy hook. Brown bakelite material. 3.5x3x1, 2 lbs. UNUSED, $9.95

800 - 900 MHz Modules

MODULES & COMPONENTS from airline phone system operating in 800-900 MHz range:

#IFPC COMMON module has two receiver input and two transmitter output sections. Has parts two each Motorola filter 0850E05140 and 0895E05141, M/A-COM 7N526-6016 circulator in one section. Also 47.5 MHz local oscillator, 5 MHz piezo osc and IC's N80C169KB 16 MHz CPU, 27C256-20 32Kx8 EPROM, 3/84256-10L 256Kx4 RAM & related IC's. Requires +28, +12, -12 V; 11x6.5x3.2, 7 lbs. $35.00

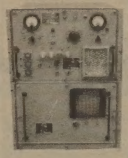
#IFPC-T/R MODULE, stripline receiver RF/IF and low power xmitter boards plus oscillator/AGC board each in separate cavities. Components S80C652-1 MPU, 2/84256A-10 RAM, 27C256JL E-PROM, two Sony 20102A D/A CONV, etc. Requires +12, -12 +5 VDC; 11x6.5x1.5, 5 lbs sh. $25.00

#AFF-PS MODULE, powered both above modules; has switching supplies Calex #24S12 (24 VDC in to 12 VDC 1.7 A out) and #12S5 (12 VDC in to 5 V 400 MA out); two RO Assoc 220-400 VDC input uVERTERs with one 28 VDC 10 A out and other 12 VDC 10 A out; and Vicor DC-DC Converter 250 VDC 35 W in to 5 VDC 25 W out. Also flat heat-sinks, capacitors, etc. 11x6.5x3.3, 7 lbs sh. $15.00

RF-1310 HF Exciter

HARRIS RF-1310 HF EXCIT-ER, microprocessor controlled set produces 100 mw RF output over 0.4 to 29.9999 Mhz AM-USB-LSB-CW in 10 Hz increments; provision for 100 preset channels. LED readouts & push button entry of frequency & function + signal meter. Stability 1 pp 10 MM /day using internal 1 MHz standard. Requires 115/ 230 VAC 48-63 Hz; 7.5x19x22, 45 lbs sh. USED-EXC, $1495.00

1 KW Power Amp



RF-110A/RF-124 POWER AMP SET, "lazily" amplifies output of RF-1310, T-827, RT-618 and similar exciters to 1000 watts PEP SSB-AM using two 4CX1500B tubes driven by two 8122's. Output adjustable down to 10 W. Frequency selection of 2-30 Mhz in 19 bands or automatic for RF1310. RF-124 POWER SUPPLY powers RF-110A from 230 VAC 50-60 Hz 1 phase 20 amp input. W/ interconnect plugs (not wired) & system operator's manual. RF110A: 12.4x17.4 x20, 95 lbs. RF124: 12.3x17.4x19, 175 lbs. USED-EXC not-tested $1795

+ +

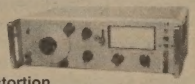
RF-130AR TRANSMITTER SET, consists of RF-1310 exciter, RF-110A amp & RF-124 supply described with Operator's Manual (no schematics), $2750.00

+ +

PP-3916 230 VAC 50/60 Hz 3-PHASE SUPPLY for above or URT-23. Output 2250 VDC 1.2 amps, 500 VDC 900 ma, 115 VAC 60 Hz 185 W, 115 VAC 400 Hz 70 W. 7.1x17.4x19.9, 160 lbs sh. USED, $165.

RF-601 A/C COUPLER CONTROL, powers and controls signals Manual-Silent-Auto to RF-601A 1 KW antenna coupler or CU-938/URA-38. Has 2.5"dia meters and circuit cards; no interconnect plugs. Requires 115 VAC 48-63; 5.2x19x8.7, 25 lbs. $125.

H-P Test Equip Sale



HEWLETT-PACKARD 334A DISTORTION ANALYZER has Auto-Nulling feature that speeds up measurement of total distortion 0.1%-100 % in 7 ranges over 5 Hz to 600 KHz; harmonics to 3 MHz. 1 Khz filter attenuates frequencies below 400 Hz. Fundamental rejection >80 DB. Meter indicates 300 uv to 300 V rms in 13 ranges, 10 DB per range. Requires 115/230 V; 16.8x5 x15.3, 24 lbs sh. USED-CHECKED w/manual, ~~$495~~. $275.

+ +

HP-400GL ANALOG AC VOLTMETER, ranges 0.1 to 1000 V-rms in 8 decade steps; -80 to +60 db in 10 db steps. Response 20 Hz-4 Mhz; output 1 Vrms open circuit. Input im-pedance 10 megohms. Requires 115/230 VAC 48-440 Hz; 6.3x5.x11, 9 lbs sh. USED-CHECKED w/book, ~~$149.50~~ $135.

Eimac PA Tubes

JAN-Boxed Eimac-made tubes:
4CX5000J, 5 KW tube @ 30 MHz used in variety of power amps; 7.5 V 100 A heater, 7500 V plate. 8.5"H x 5"dia, 13 lbs sh. UNUSED, $650.00
8295A (=PL172) as in TMC 1 KW PA's; 6 V 8.2 A heater, 2500 V plate. 5.1"Hx4"dia. UNUSED, $350.
4CX300A/ 8167, ~~$85.00~~ $45.00

USED-LAB-TESTED, Eimac and/or Amperex mfg:
4CX250FG/8621, 26 V filament, $40.00
4CX350FJ/8904, 26 V filament, $35.00

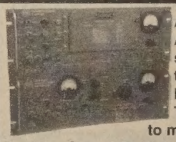
Preselector / RF Amp

TN-612/G PREPOST SELECTOR, consists of RF preselector and broadband power amp. Preselector operates in four bands 1.8-3.6, 3.6-7, 7-14, and 10-24 Mhz. Microprocessor-controlled unit has no front panel controls except ON-OFF and indicators for OV DE, OVL, ATT, BITE, TUNE plus silver-plated coils and 3-gang variable capacitor. Frequency is selected by twelve Kilovac HC-1 vacuum relays and nine mini-coax relays along with motor interface adapters. Relays actuated by driver transistors. RF power amp uses four transistors S15-28, T9-0664 and two MRF-466 as output amplifiers. P/o GRC-215 HF-SSB system; no further info at this time. Requires 115/230 VAC 50-60 Hz; 4.5x19x17, 46 lbs sh. UNUSED, $250.00

UHF POWER AMP

AM-6155/GRT-22 POWER AMPLIFIER (ITT 3212) conservatively rated for 50 watt output from 10 watt exciter input over 225-400 MHz; uses Eimac X651Z/8930 or Amperex DX393 tetrode (no choice) in silver-plated cavity-drawer; 175-turn TUNE counter dial. Main chassis has solid-state power supply and buffer amp/mulitplier; panel meter monitors voltages. Requires 105/120/210/ 240 VAC 50-400 Hz and +20 V reg 60 ma, +20 V keyed; w/schematic info. 7x19 x18.5, 80 lbs sh. USED-excellent-NOT TESTED, $235.00

VHF Transmitter Set

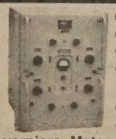


AN/GRT-18 VHF XMITTER-AMPLIFIER SET, solid-state, single crystal-controlled channel in 120-152 MHz range @ 50 W out-put. T-949 transmitter has meter to monitor Oscillator, Buffer/ Doubler, Output 30 W Forward/ Reflected, Modulation 0-100%, Voltage. Trimmer controls: Carrier PTT-ON, Mod/ RF/ Mic Gains. AM-4531 POWER AMP uses 8122 tube; metering for 2 KV Plate, 1 KV Screen, 1 KV Plate RF Peak, -100 V Bias, 100 W FOR & REF Power & 0-300 MA Plate Current. Controls Load & Coupling w/lock & Bias Adjust. Set includes Amphenol 360-11896-1003 DP transfer relay & connecting cables. Manual not available. Requires 105-130/210-260 VAC 47-400 Hz. Each 7x19 x14.5; 85 lbs total.
USED-excellent, not tested, $225. T-949 only, $50. AM-4531 AMPLIFIER only; 45 lbs sh, $175.00

490T-1A COUPLER

COLLINS 490T-1A (CU-1669A) AUTOMATIC ANTENNA COUPLER for 618T and similar 2-30 MHz transceivers; rated RF input 630 W PEP, 200 W average. Matches 25 ft or longer whip or 25-100 ft long-wire antenna to 50 ohm line. Terminal for wire and "C" coax connection. Has 5-500 pf 10 KV vacuum vari-capacitor and variable step-coil. Requires 115 V 400 Hz; 7.6x 10.1x12.6, 24 lbs. USED-not tested, $450.00

UHF Multicoupler



CU-547 ANTENNA MULTICOUPLER, Collins-made unit couples four transmitters or receivers in the 224 to 400 Mhz range to single antenna. Uses four silver-plated cavities each separately tuned with Mega-cycles & Revolution count dials + verniers. Meter and selector switch monitors SWR & Cal for each. 4 - N input connections; LC output conn. 19x24x23, 82 lbs. USED ~~$225.00~~ $185.

20-1000 MHz Rx

WATKINS-JOHNSON 8737 PANORAMIC RECEIVER (RU) w/DISPLAY UNIT (DU), four solid-state band tuners: 20-90, 90-300, 235-500 and 500-1000 MHz CW-AM/MAN-AM/AGC-FM- Pulse. IF bandwidth: 4-20-100 KHz; 21.4 MHz IF. RU controls COR/Squelch, Video Gain, RF/IF Gain, ON/OFF/ Audio Gain, Video Out, Phone Out, Fine tune. Display 1"Hx3"W CRT shows upto 3 MHz spectrum. Sweep 20 KHz-3 MHz. DU also has 6-digit freq-counter; time base provides DAFC for RU. W/ manual copy for = WJ9026; LESS CABLES. 5x19 x26, 65 lbs. USED-working, may not be to specs, $1375.

COLLINS 618T

COLLINS 618T-2 SSB AIRBORNE TRANSCEIVER, 2-29.999 Mhz SSB-AM-CW in 28000 channels. Power output: 400 watts SSB-PEP 125 W AM-CW; 52 ohm output imped. Sensitivity SSB: 1 uv for 10 db S+N/N. Selectivity SSB: 2.85 Khz, 6 db down; 6.0 Khz 60 db. Audio input: 600 ohms. Uses two 4CX250's in P-A. Switch & meter monitor internal power. Separate control necessary for channel select. Racks & cables not available. Requires 115 V 400 Hz 3 phase 1 KVA & 1 phase 160 VA; also +27 VDC 4.5 amps. W/ manual repro; 7.6x 10 x22.2, 58 lbs. USED-REPARABLE with K9 oscillator, ~~$550~~ $495. #618T-3, like above but requires 28 VDC 35 A and 115 V 400 Hz 1 phase 100 VA. USED, $600.00

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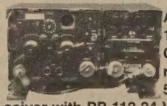
RT-712/ARC-105 HF TRANSCEIVER, pressurized 618T2; modules intechangeable. Covers 2 to 29.999 MHz SSB-AM-CW in 28000 channels. Front has hour meter, C and BNC connections. Separate control needed for freq-selection. Connectors not available; same power input as 618T2 10.5x 11.5x23, 70 lbs. USED, ~~$405~~. $375.
C-6454/ARC-112 CONTROL BOX usable with 618T or RT-712; channels, LSB-UB-AM select & RF SENS. 3 lbs sh. USED, $45.00 w/618T purchase.

ARC-109 Transceiver

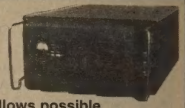
RT-749/ARC-109 UHF AIRCRAFT TRANSCEIVER, solid-state Collins unit operates on 225-399.95 MHz AM, DSB and A3 phone @ 30 watt min. 3500 available channels in 50 KHz intervals plus 243 MHz guard channel. Uses 4631 tube in P-A; 150 ohm audio/ mic impedance. C-6364 control necessary for channel select; cables & racks not available. Replaced ARC-27-34-51-52. Requires 115 V 400 Hz 3 phase. 6.8x9x16, 29 lbs. USED-REPARABLE, ~~$695~~ $350. SCHEMATICS f/RT-749, repro, $12.00 w/set purch. C-6364/AR CONTROL, used, $45 w/set purchase.

VRC-10 RADIO SET



AN/VRC-10 used in 1950's-1960's military vehicles. Consists of "government-reconditioned" RT-68 38-54.9 Mhz FM 15 watt transceiver with PP-112 24 VDC power supply & MT-299 rack. Also "unused" accessories CX-1211 RT-PP interconnect cable, AB-15 mast base, H-113 and H-63 headsets, M-29 mic, LS-166 speaker, GSA-6 chest group, CW-206 antenna bag, CW-330 cover, CG-530 RF cable, hardware & manual. Knob & meters removed by gov't; "used" ones supplied for customer to install. RT & PP paint color may not match. 135 lbs sh. GOV'T-RECONDITIONED, $225.

SSB HF Transceiver



RT-594/ARC-38A AM-LSB-USB HF TRANSCEIVER, 2.0 - 25 MHz using 20 preset channels with auto-tune channel change. Stabilized master oscillator allows possible 35250 channels in intervals 500 Hz (2.0-7.25) and 1000 Hz (7.25-25 MHz). Output 100 W PEP < 14.25 MHz; 90 W > 14.25 MHz. SSB sensitivity 1.5 uv for 10 DB S+N:N. Selectivity 3 KHz min 6 DB dn; 8 KHz max 60 DB. Has 25 tubes with 3/ 6159 in P-A. Requires +28, +600, +250, -50, -65 VDC & 6.3 VAC; Also 115 V 400 Hz for selsyn on inductor. 15.5x8 x2.5, 80 lbs. USED, $210. MANUAL, partial repro, $22.

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COLLINS 618S1, similar to RT-594/ARC-38A except not SSB; crystal-controlled (no VFO). USED, $75.
C-1398/ARC-38 CHANNEL CONTROL BOX, for RT-311; function switch can be modified to allow use with RT-594. Fronts may be chipped or cracked; less freq-setting book. 8 lbs. USED, $17.50
SETTING BOOK for C-1398/C-3428, repro, $10.00

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COLLINS 180L3 AUTOMATIC ANTENNA COUPLER for use with ARC-38 or similar radios in 2-30 MHz range @ 50-180 W. Automatically resonates antenna to radio frequency and couples RF. Includes 7-1000 pf 3 KV vacuum variable capacitor & 28 uH variable ribbon inductor; UHF connection. Requires 28 VDC 3 amps, 250 or 400 VDC 5 ma & 115 V 400 Hz 20 VA. 10.5x7.8x11.5, 24 lbs sh. USED, ~~$115.00~~ $90. MANUAL, partial-repro, $10.

VACUUM VARIABLE CAPACITOR ASSEMBLY with UCSL-1000-3 7-1000 pf 3 KV vacuum variable and 28 VDC drive motor & gear assembly. Runs on 6 VDC up. 8x6.8x3, 7 lbs. #C501/180L, used $74.

2-15 Mhz Transceiver

AN/GRC-165 RADIO SET (HARRIS 301/302), solid-state unit covers 2 to 15 MHz USB-LSB-AM-CW in 1 Khz steps; output 100 watts PEP SSB, 25 W AM nominal into 52 ohms. Consists of RT-902 (RF301) transceiver, CU-1782 (RF302) antenna coupler, C-7648 remote box w/speaker, two shockmounts, four 4 ft antenna sections, AB-1082 mast base, AC & DC power cables. RT-902 controls PA TUNE PRESELECTOR and 4 decade FREQUENCY SELECT. Also MIC connection and built-in speaker. Requires 115/230 VAC 50-60 Hz or 24 VDC. CU-1782 is manually tuned with 3-digit LOAD and FINE TUNE counters. Also COARSE TUNE 1-10, 0-200 wattmeter and FOR-REF POWER switch. Uses 10 uH & 18 uH roller inductors, fixed capacitor banks and SWR bridge. C-7648 has built-in speaker & handset connection. RT: 7.8x18.5x14.3, 65 lbs. CU: 7.8x5x14.3, 9 lbs. SET sh wt: 125 lbs. USED-REPARABLE, $545.00

FM Transceiver

MAGNAVOX FM-622 (RT823/ ARC-131) AIRBORNE TRANSCEIVER, covers 30-76 Mhz FM in 920 channels, 50 Khz steps. Output 1 watt in LO; 18 W max HI @ 29 VDC RT has Squelch Disable & Adjust, Test switch. Meter monitors +24 V-+16 V-AGC-RF FWD- RF REFL-OFF. Control box provides channel select, Volume, Squelch, OFF-TR-RE-TRAN HOME switch. Has some modules common to RT-524/VRC-12. Requires 24-29 VDC 4 amp max. Rack & cables not available. 7.8x 5.9x15.6, 31 lbs. USED w/control box, $250.00

Ramko Audio Mixer

RAMKO DC-5RA 5-INPUT AMP/MIXER, each input has Level Control and can be connected to "A" or "B" buss or not connected to ther. Each buss has LED VU-meter and Master gain ontrol. Input level -60 DBM 510 ohms/0 DB 560K hms; factory set @ 0 DB, but can be changed per anual. Response 20 Hz-20 KHz. Speaker monitors put channel; w/ manual copy. Requires 115 V 60 Hz; x19x15, 17 lbs. USED, not tested, ~~$99.50~~ $79.50

SWR Indicator Circuit

TANDING-WAVE RATIO INDI- ATOR CIRCUIT, assemble a WR meter using this 1.8" quare 0-10 scale (FS=2 ma) eter with filters, rectifiers & odified Schering bridge. One pair of bridge arms is sistive, the other capacitive. Circuit is balanced when ntenna is tuned to 52 ohms resistive resulting in "0" eading on meter. SO-239 connection. Bridge: 2.5x .3x1, 2 lbs sh. #M701/CU-991, USED, $8.95

Foot Switch

HERCULES FOOT SWITCH, rugged cast construction designed for heavy-duty industrial shop se. Rated 15 amps 125-250 VAC; 1/2 HP 125 V or 1 HP 50 V. OSHA orange color. Pedal 4"W; 3"Hx8"L; 9 lbs h. #HFSW-53-SYN, NEW, $29.95

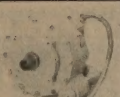
455 KHz BFO

ERMEABILITY-TUNED 455 KHz FO COIL from R-392 receiver. riginally used with 5-55 pf variable capacitor but fixed ap may be substituted. Oscillation without parallel apacitor: 452-480 KHz. Good basis for BFO for any eceiver with 450-465 KHz IF; w/ schematic. 3.3"Lx 1.5" ia, 1 lb. #BFO-T602/R392, USED, $14.95

Oscillator

TRANSISTORIZED CRYSTAL OSCILLATOR and BUFFER, 56 to 99 Mhz with 75 °C temperature controlled oven. Requires 5th overtone HC-6 20 pf) crystal (not supplied). Has external oscillator nput plus tuning meter & oven output. Requires 12-18 /DC regulated for oscillator; 22-39 VDC 1 amp for eater. W/BNC and SMA RF connections; DEC-9P plug or power. Part of GRT-21/22 xmitters. 6.5x2x3.3, 3 lbs. OSC-8004290G1, USED with schematic, $9.95

STEP ATTENUATOR



/ARIABLE 6-STEP ATTENUATOR, ladder network in 10:1 ratio. Attenuates 0.1 / down to 0.1 uv; 50 ohm impedance. NC input & output connection; shaft 3/4"Lx 1/4" dia with gear drive. Silverplated; p/o 0.01 to 50 MHz RF generator. .1x3.5x4.8x3.5, 4 lbs. #AT101/URM25, used, $19.

Class C Power Amp

CLASS C POWER AMPLIFIER removed from T-195/GRC 100 watt transmitter; uses 4X150D tube to cover 1.5 to 20 MHz in ten bands using variable and fixed capacitors, switches, and 400 Hz servo motor. Chassis also has discriminator and servo amp. Requires 1000 VDC modulated, -250 VDC, -45 VDC & 115 V 400 Hz for motor. W/tubes 4X150D, 5751, 6AQ5, 5763 and schematic. 9.5x8.5x6, 15#. PA/T195, used, $27.00

P-A SPEAKER

XSAM-A-7 PUBLIC ADDRESS SPEAKER, heavy-duty for shipboard use. 50 or 70 volt line; response 500-4000 Hz @ 7.5 watts. Driver is 6 ohm 15 W; 12" dia baffle; mount holes on back. 24 lbs sh. UNUSED, $27.50

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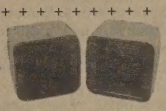


SPEAKER PAIR in PLASTIC ENCLOSURES, each 4" dia 16 ohm 1 W speaker in attractive 6.8x6.8 x5.3 enclosure with 6' cord and RCA plug. White & black plastic per pic; 4 lbs sh. #ER-PL-SPK-PR, NEW, $3.95/pair

3 X 5 SPEAKER, 2 watts with 1.8" dia magnet; 1 lb sh. SPECIFY: 8 or 16 ohm 1 W. NEW, $1.35 ea; 10 for $12, 100/ $95.

Signaling Speaker

SIGNALING SPEAKER ASSEMBLY for intercom-PA; includes 8" dia cone w/3" dia magnet, 12.9" dia white ceil-baffle & 70.7 V line transformer rated 0.5/ 1/2/5 watt 81/84/87/90 DBA 400-4000 Hz. 6 lbs sh. Soundolier #945R, NEW, $9.95

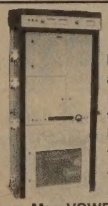
Transistor Audio Amp

TRANSISTOR AUDIO AMPLIFIER w/5-transistors, On-Off-Volume and Tone controls. Inputs for ceramic or crystal phono cartridges. Other possible uses as intercom, home-brew receiver, child's projects. Use with 8 or 16 ohm 3" or 4" speaker. Requires 6-9 V AC or DC; with schematic. 1.5x2.3x3.3. #ER-10-1231, NEW $2.95; 2/$5

Parking Meter

ELECTRONIC PARKING METER with LCD readout of Time Remaining plus red EXPIRED flag. Takes nickels, dimes, and quarters at rate of 6 minutes per $.05; Requires 5 VDC. Could possibly be modified to turn-off TV or video game after time expired. 7x5.5x4, 3 lbs sh. #EPM-60, 60 minutes, used-excellent, $11.00

Collins 208U-3



POWER AMPLIFIER automatically tunable over 2 to 30 Mhz SSB-AM-CW @ 3 KW PEP using 4CX3000A tube driven by two 4CX350 tubes. Requires 0.2 W RF input; 2 W max during tune cycle. Autotunes using servo system or manually controlled under test. Tune time 15 sec nominal, 20 sec max into 50 ohm antenna. Max VSWR 1.3:1. Output: max VSWR 3:1. Requires: 200-250 V 3-wire 3 phase 30 amps 47-420 Hz; 1200 W Standby, 9100 W CW @ 2.5 KW. 72.5x32.6x31; 1020 lbs sh. USED, "not-tested" less 4CX3000A, $3000.00 EIMAC 4CX3000A, USED-lab tested, $450 w/set purch. MANUAL for 208U-3, partial repro, $75 w/set purchase.

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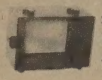
208U-3A POWER AMP, automatically tunable version of above for use with URG-2 radios. Uses 4CX5000 PA tube; tune time 6 sec nominal, 10 sec max. With modules 333H-2 Electronic Control Amp, 309F-1 Digital to Analog Converter, 915V-2 Amp Control, 652J-13 Power Supply, 599Z-1 Test Panel and 915X-1 Control Monitor. Includes manual copies for all components except 915X-1 & 599Z-1. 72.5x32.6x31; 1200 lbs. USED-NOT TESTED less 4CX5000, $3200. EIMAC 4CX5000J TUBE, unused, $450 w/set purchase

+ +

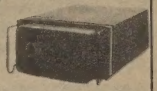
208U10 POWER AMP, similar to 208U3 except 10 KW out using 4CX10000D tube; 40x70x27.5, 1500 lbs sh. USED-NOT TESTED less 4CX10000D, $3900.00 MANUAL for 208U10, partial repro, $45.00

Enclosures

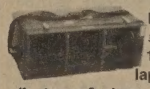
ALUMINUM ENCLOSURE & frame from antenna coupler. Adapt as-is or re-work; 7.5"Hx10"Wx10"D + removable 4.5"x2.5x3"D front ant-insulator. Cut-outs for 1.8" meter & two connectors. 8 lbs. #ENC/180L3, used, $7.



STEEL ENCLOSURE with metal feet and hasp fastnerss. 6.5"Hx9.3"Wx5"D; 5 lbs sh. USED. #ENC-RM-39, $3 ea; 2 for $5.



ALUMINUM CASE & CHASSIS 8"Hx 15.5"Wx23"D (20"D behind panel). Some cut-outs on the front; usable for antenna tuner or other project. 20 lbs. #CS-ARC-38A, USED, $15.



INSTRUMENT CABINET for HP- test set; adapt to other uses. 7.6"H x 19"Wx9"D + 4"D cover less 1" overlap; three 6"Hx5"W compartments; w/fastners & strap; 17 lbs sh. #CS-HP3550, used, $27.

Transit Cases

LARGE ALUMINUM TRANSIT CASE with rounded corners, hasp fastners & carrying handles; 20.8"Hx28"Wx17"D including 6"H top. Spot welded compartments + 2 nesting trays; 66 lbs. #CY-3700/PRC-47, used, ~~$35.~~ $28.

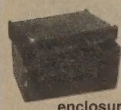
BLACK PLASTIC TRANSIT CASE, similar to above except 22"Wx17"Hx20.5"D; top half 8.5"H. With removable foam padding; 35 lbs sh. #PL-CY-7286, $22.00

#CY-7542/PRC-104 FIBERGLASS CASE designed to protect PRC-104 backpack radio in foam insert (Insert can be cut out). Measures 15.3"Hx22"W x14.5"D with hasp fastners, side handles & pressure release button. 30 lbs. UNUSED, $35.00

#CS-TS382 TRANSIT CASE, o/a 15x19 x15.5; space without removal of spacers 10x18.8x12.8. Not hinged; hasp fastners. Aluminum; 35 lbs. USED, $24.00

#CS-URM64A CASE, o/a 16.7x20.8x13.5; space without removal of spacers 13x17.5x14. Not hinged; w/ hasp fastners & handles. Aluminum-clad wood; 36 lbs. $16.

PLASTIC STORAGE CASE, rugged but light with hinged top, hasp fastners, and recessed top grip. Two glued spacers; interior 7.5x6.3x5.3. Handy item for shop; 2 lbs. #CS-PL-SR, used, $2..25 ea; 2/$3.50



CAST ALUMINUM CASE with toggle cover screws; rugged construction allows this 8.5"Wx4"Hx5.5"D case to offer serious protection of valuable items when used for storage or as enclosure; 5 lbs sh. #CS-GRC109, used, $10.00

DOUBLE RACK

DOUBLE RACK EQUIPMENT CABINET w/ rear doors, castors & two top 10" dia fans. Full panel height each side: 61.5". Blue side panels; steel constucted. O/a 74.5"Hx 45"W x 30"D, 300 lbs sh. #2RK-1962, USED, $175.00

#3RK-1962 TRIPLE RACK, similar to above but three racks; 68" wide, 450 lbs sh. USED, $250.00

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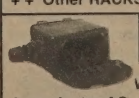
+ + Other RACKS & CABINETS available! WRITE! + +

4-Outlet Box



WEATHERPROOF OUTLET BOX, four 3-conductor AC outlets with separate spring-loaded covers in aluminum enclosure; 9" cable has 3-pin conn. 5.5x3x6.5, 4 lbs sh. #WP-4AC-BX, used, $13.00

R-390A HF Receiver

R-390A/URR RECEIVER famous military set covers 0.5 to 32 Mhz AM-CW-MCW in 31 one Mhz bands read directly on mechanical digital counter. 455 Khz final IF; has four Collins mechanical filters allowing 2-4-8-16 Khz selectable bandwidth. Calibration points every 100 Khz; also BFO, AGC, dial locks, 600 ohm audio out, Line and Carrier Level meters. Uses 24 electron tubes; also twinax (balanced) and type C (unbalanced) RF conn. Rackmount; LESS METERS & COVERS. Requires 115/230 V 60 Hz. 10.5x19x16.8, 92 lbs. USED-REPARABLE, $215. CHECKED, $345.00; MANUAL, partial repro, $15.00

R-390A "CHECKED" with white-faced meters, $375.00

R-390A "AS-IS", less meters, 3TF7, tube shields, covers, ID plate &other unidentified minor parts. $165.00

* *

R-390A, R-392, R-648 PARTS

REPLACEMENT ASSEMBLIES & PARTS for military receivers: R-390A (A), R-392 (B) & R-648/ ARR-41 (C). SPECIFY receiver type & chassis part designation!

AUDIO SECTION	$50 (A) $30 (B) $20 (C)
BEAT FREQUENCY OSC,	$20 (A) $15 (B)
COUPLER, OLDHAM, small or large,	$4.00 (B)
CRYSTAL CAL CHASSIS,	$30.00 (B)
CRYSTAL OSCILLATOR (no crystals)	$20 (A,B)
CRYSTAL, BAND	$10 ea (A,B,C); 5/$35 per Rx xtal
200 KHZ CAL,	$18.00 (A,B)
DIAL, COUNTER	$18.00 (A,B,C)
(C) FILTER, MECH (A):	2 Khz $50. 4 Khz $45. 8 Khz $30. 16 Khz $24.
GEARS #39 or #21,	$7 (A); others $3 (A,B,C)
GEAR CLAMPS,	large $4. Small $2. (A,B,C)
HANDLES per pair,	$8.00 (A,C)
KNOBS, small or medium size,	$2..00 (A,C)
MHz/KHz large,	$7 (A) $5 (B,C)
POTS: RF, IF AUDIO GAIN,	$2.50 ea (A,B,C)
POWER SUPPLY without tubes	$35.00 (A)
RESISTOR TUBE RT510/3TF7 or =,	$17.50 (A)
RF AMPLIFIER SECTION,	$17 (C)
RF/IF TUNER less VFO,	$95 (C)
RF OSC ASSY less crystals,	$18 (C)
SPECTRUM GENERATOR,	$18 (C)
TRANSFORMER, AUDIO,	$7.50 (A,B,C)
" , RF-IF (specify #)	$8 (A,B,C)
SLUGS only (specify #),	$3.50 ea (A,B,C)
VFO, (COLLINS),	$65 (A) $60 (B) $45 (C)

0.5 - 32 MHz Receiver

R-392/URR RECEIVER, 0.5 to 32 MHz AM-CW in 32 one MHz bands using mechanical digital tuning. Triple conversion on lower 8 bands, double on others. Selective bandwidth 2, 4 or 8 KHz; 100 KHz xtal calibrator. With 25 tubes: 26A7, 26A6, 26C6, 26D6, 6AJ5, 12AU7. Requires 24-28 VDC 5 amps. Rugged vehicular version of R-390 receiver. 11.5x14.3x11, 58 lbs sh. USED-REPARABLE, $185. CHECKED, $265.00

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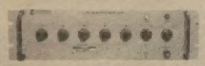
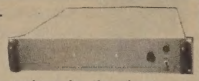
R-392 AS-IS": Receiver less meter and all knobs except tune knobs; otherwise complete. Good for parts! VISUALLY INSPECTED ONLY--not tested! $99.50 MANUAL for R-392, partial reproduction, $15.00 9-PIN CONNECTOR for R-392, $9 with set purchase LS-166 SPEAKER for R-392, used, $16. UNUSED, $25.

HF Pre-Post Selector



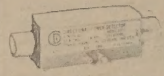
RF-551A PRE-POST SELECTOR highly selective bandpass filter for 2-29.999 Mhz range functions as preselector for enhancing receiver signal reception or as post selector for re-ducing exciter output noise when used with 6 db pad (not supplied). 5-decade freq-control knobs & Hi-Lo Gain switch; N conn. Requires 115/230 VAC 47-420 Hz; 5.3x19x20, 36 lbs. USED-excellent, $350. MANUAL, partial repro, $20

HF Receiver Amplifier



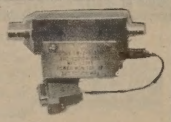
HF LINEAR RECEIVER AMPLIFIER, 2 to 30 Mhz dual channel solid-state unit amplifies RF signals for receivers to "pull in" the weak stations for the shortwave listeners. Each channel is capable of 1 to 1.5 watts with gain of 20 DB. Ideal basis for QRP projects, recei-ver preamps and exciters! Tuned circuits could be put between the cascaded channels. Each channel consists of plug-in modules: input bandpass filter, preamlifier, power splitter (2 emitter followers), power amp, and monitor amp. TO-5 style transistors; connectors are TNC but could be replaced with single hole mount BNC. Aiken mfg; schematic not available. Requires 115 VAC 50-400 Hz; 3.25x19x19, 30 lbs sh. #AE-3300-42889, used-reparable, ~~$125.~~ $99.50

225-400 MHz Detector



225-400 MHz DIRECTIONAL POWER DETECTOR used in AM-6155 UHF power amplifier. Rated 65 watts forward; 15 watts reversed. Forward/reversed DC output proportional to output/mismatch; sub-mini connectors provided. "N" RF connections; 4.5x1x1.3, 1#. Coaxial Dynamics #3023, USED, $18.

Bird 4162D

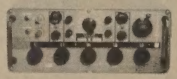


BIRD 4162D RF POWER MONITOR, rated 220-405 MHz 40 W. Measures incident and reflected power; VSWR 1.1:1 max. Usable over 145-500 MHz. Output 100 ua @ 5K ohm. RF connectors; output C, input BNC. DB-9 for DC outputs. 1.8x4x1, 1 lb sh. NEW, ~~$24.95~~ $19.95

Dummy Load

DA-437 DUMMY LOAD, rated 50 watts continuous into 50 ohms. VSWR 1.5:1 max; 220 to 1000 Mhz. Non-oil; "C" RF conn. 3x6.8x3, 45 lbs. USED, $25.00

RF-1051B HF Receiver



R-1051B SYNTHESIZED RECEIVER, covers 2-29.9999 Mhz AM-CW-LSB-USB-ISB using six de-cade band tuning to 100 Hz + vernier for continuous tune; 500 Khz IF. Meters and controls for LSB & USB Levels; also BFO, 600 ohm audio & 50 ohm input. Stable shipboard design; solid-state except 3 tubes. Requires 115 VAC 48-450 Hz; 7x17.4x18.9, 85 lbs. Used-CHECKED, $350.

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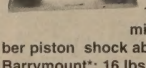
R-1051G RECEIVER, later version of above with IC-circuitry in synthesizer. USED-CHECKED, $650. MANUALS for R-1051B or -F, partial repros, $45 ea.



MT-3114 SHOCK & VIBRATION MOUNT for R-1051, RT-618, AM-3007 and similar Navy radios. 19.8"Wx16.5"D top & bottom aluminum platforms w/ four large rubber piston shock absorbers good for 200 lbs; Barrymount*; 16 lbs sh. UNUSED, $25.00

W-J FET AMPLIFIER

WATKINS-JOHNSON 5310-35 LOW-NOISE FET AMP, Galium (Ga) Arsenic (As) type for use over 7.0 to 12.4 GHz. Amplitude flatness 3 db max. Gain: 37-41 db. VSWR 2.3:1 max. Noise figure 9 db max. SMA input output connections. Requires 115 VAC 60 Hz; 12x2x2, 4 lbs. UNUSED, $85.00

USB Receiver-Exciter

RT-662/GRC-106 TRANSCEIVER, 2 to 29.999 Mhz USB-AM-CW-FSK; tunes using 5-decade mechanical switches to 1 KHz increments + vernier. Exciter output 100 MW. Controls: Service Selector, PA Load, Squelch, Noise Blanker, BFO, and audio func-tions. LESS Signal Level meter. Re-quires 24 VDC 10 amp; 7x18x13, 56 lbs sh.
USED: "AS-IS" not tested/LESS meter, ~~$250.~~ $195.
"CHECKED" with meter (not original), $350.00
RT-834/GRC-106A, similar to RT-662 above but 2-29.9999 MHz, 0.1 KHz increments.
USED: AS-IS no meter, $345. CHECKED w/meter $495
MANUAL for GRC-106/106A partial repro, $45.
POWER CONNECTOR for RT-662/834, $7.50
LS-166 SPEAKER for above; 5 lbs sh. USED, $16.00

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AM-3349/GRC-106 POWER AMP for RT-662/834; amplifies 100 MW RT output to 200 W AM or 400 W PEP. Uses two 4CX350FJ tubes. Requires 28 VDC 1 KW max; 77 lbs. USED-"AS-IS", less meters, ~~$525.00~~ $400.

R-390A Modules

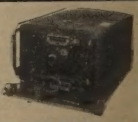
VARIABLE FREQUENCY OSCILLATOR from R-390A HF receiver with 5749 tube; various mfg (no choice). 4x3x7.5, 4 lbs sh. #VFO/R390A-O/H, gov"t-reconditioned $45.00 #VFO/R390A, used- "AS-IS" untested, $22.50

I.F. DECK with BFO, four "good" Collins 455 KC mechanical filters 2-4-8-16 KHz, and tubes except no RT510 ballast; 4 lbs. #IF/390A, "AS-IS" not tested, $100

RF AMPLIFIER DECK "AS-IS" for parts or as possible spare for your working R-390A. Includes front gear assembly, set of RF transformers with slugs and slug racks. LESS tubes, crystal oven & counter. 9x12x16, 18 lbs. #RF-R390A-93, "AS-IS", $35.

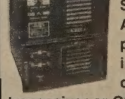
AUDIO AMPLIFIER with transformers, chokes, C603/606 capacitors and tubes, but J620 chassis connector has been removed; 8 lbs sh. #AF/R390A, "AS-IS"less tube shields, $30.00

ARC-51BX UHF TX-RX



RT-742/ARC-51BX UHF AIRCRAFT TRANSCEIVER, 225-399.99 MHz AM in 3500 available channels, 50 KHz spacing; also has guard channel. Output 16 watts min. RF impedance 52 ohm input & output. Audio and mic impedance 150 ohms. Includes ID-1003 SWR indicator; separate control box necessary for function & freq-selection. W/ tubes 4/ 7077 and 4/ 7544; requires 27 VDC 13 amps. 7x9.5x15.1; 35 lbs. USED,$250.00

1 KW Amp



SUNAIR GSL-1900A 1 KW POWER AMPLIFIER with PS-1900A power supply, 1.6-30 MHz 1 KW PEP/ average using 4CX1500 tube. Tunable automatically when used with GSB-900 SSB transceiver or GSR-924 exciter or locally. RF drive required: 40 watt max. Frequency bands 1.6-2, 2-3, 3-4, 4-6, 6-9, 9-13, 13-20, 20-30 Mhz. Meter and switch monitor circuit voltages plus Status & Fault indicators. Interconnect cables/plugs not available. Requires 115/230 V 50-60 Hz. GSL 14.3x18x21.8, PS 9x18x21.8; 225 lbs sh. USED-not tested w/manuals, ~~$1905.~~ $1650.00

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GCU-1935 ANTENNA COUPLER for GSL-1900A, 12x31 x23, 52 lbs sh. USED, $425.00 w/GSL purchase.

Twin Cavity Filters

TUNABLE TWIN-CAVITY BAND-PASS FILTERS, gold-plated cavities have tune knobs, dials, and rear N-connections. Designed for military TRC-24 radio system for specific frequency ranges; usable and/or adapt for civilian purposes. 7x2.5 x9.5, 8 lbs. Used, $22.00 each:

F-196/U 184-205 MHz F-199/U 224-254 MHz
F-200/U 254-284 MHz F-201/U 284-314 MHz
F-203/U 344-374 MHz F-204/U 374-404 MHz
* F-197/U 205-225 MHz, unused, $30.00 *

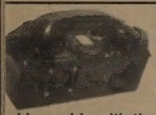
Phone Patch

'OX-A-PHONE, functions as tele hone patch using a voice activated witch to key a transmitter and can e used as "hands off" remote mic n NORMAL mode. In effect permits relaying of tele-hone conversations via radio and vice versa. Con-ects to mic and speaker jacks of transceiver; tele-hone handset is placed in unit's cradle to become coustically coupled to transceiver. Telephone volume utomatically controlled; transmit volume manually. 3 inute timer starts upon patch connection; tones when 0 seconds remain in patch. Some jack re-wiring may e required. 4x11x11, 6 lbs. #VOX-PHONE, NEW, $55.00

Sound-Power Phones

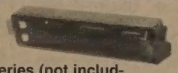
A-1/PT TELEPHONE, sound-powered unit equires 2-conductor field phone wire con-ected to another TA-1 for communication ithout batteries. Palm-operated generator rovides approx 100 V to "buzz"- signal nother phone; also visual indicator. Has oil cord with push terminals for wire hook-p and plastic carrying case. 8.5x3.5x3.5, 4 s sh. USED-CHECKED, $35 ea. 2 for $60.

Field Phone



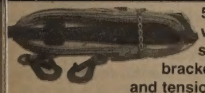
TA-312 FIELD TELEPHONE rugged light-weight unit re-places famous EE-8 field phone nd is usable with them. Includes G-42 crank genera-r, BZ3 clacker call signaler, H-60 handset, and can-as carrying bag w/ strap. Requires 2 D-cell batteries ot supplied.) 12x7x4, 12 lbs. USED-CHECKED, $75. ANUAL for TA-312, partial reproduction, $8.50

GPS BATTERY BOX



A-BATTERY BOX for Trimble avigation Trimpack GPS re-iver. Clips onto & allows op-ation of GPS from 8 - AA batteries (not includ-l). 1.6x 6.5x1.5; 1 lb. #GPS-13828-00, NEW, $22.

Steel Guy Assembly

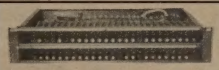


50 foot 3/16" steel braid wire with 2 heavy-duty snap hooks on 17" lg steel bracket. Includes locking pulley and tension adjustor; flanges for oring guy. Designed for mil-antenna or other sup-rt uses; 8 lbs sh. #SMD-423629, UNUSED, $16.95

568/GRC JUNCTION BOX, ed with R-392 & T-195/ GRC- in GRC-46/VRC-29 RTTY stemfor terminating and erconnect. Meters 0-100 MA and 0-50 VDC, MAIN POWER cuit breakers, BIAS 30 MA & LINE 60 MA Adjust, N-OFF switches for TTY, Lights, Blower, Crypt, and connections for system; U-79 connection for ANS control. 6x16x7, 16 lbs. USED-excellent, $45.

Military Flashlight

MX-991/U FLASHLIGHT official rugged right angle military type made in USA. Operate from two "D" cell bat-teries (not included). Clear diffuser, red signal, and white opaque spare lenses store in handle; metal belt clip. O.D. green plastic; current issue, 8.3"Lx2" dia. NEW $6.75



INTERBAY TRUNK MOD-ULE, a jack strip with 24 pairs of phone plug receptacles with indicator lights. Also four Cinch 25-contact in-line plugs on short cables. 3.5x19x8.3, 15#. #CSA-2901, USED-CLEAN, $20.00

TA-954 Phone

TA-954/TT NON-SECURE DIGITAL VOICE TERMINAL used in Tri-Tac comm-system; 4-wire set xmits and receives diphase-modulated digital voice & loop signaling info at 16K or 32K bits. 125 ohm line impedance 125 ohms; range 4 km using WF-16 field wire (no stock). Requires 24-56 VDC. Tone pad charac-ters 0-9, FO-F-I-P-R-O-C; also Volume L-H Ring - Receive & H-250 hand-set. Plastic case EMI/ EMC static protected. 7.3x4.5x10, 8#. USED-reparable, ~~$89.~~ $50.

TA-341/TT TELEPHONE SET push-button 4-wire unit for use with tactical switches using four C-cell batteries; usable in con-ventional point-to-point tele-phone line (plug may need changed) Range >3.2 km. Signal out 900-3400 Hz digital tone; 90 V 20 Hz signal in. W/case; 4.5x10.5x10.5, 10 lbs. USED, ~~$49.50~~ $27.50

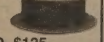
TA-838/PT PHONE

TA-838/PT MILITARY FIELD TELEPHONE has push-button numeric tone pad and is designed for 2- or 4-wire communica-tions; replaces old EE-8 and TA-43/312 field phones. Ringing signal audible only in 4-wire hook-up. TA-838 also operates over standard telephone lines. Rugged thermoplastic construction; re-quires four C-cell batteries. 6x9.8x5, 8 lbs. USED-CHECKED, $69.50; Operator MANUAL $10.

RL-172 Reeler

RL-172*/G REELING MACHINE, motor-driven unit mounts on back of small truck to lay-out or recover field phone wire from/onto RL-159 reel. Uses 24 VDC 11 A 1/4 HP 1400 RPM motor; can be manually cranked. Could be modfied to work as light-duty winch. W/ vehi-cle mount plate; 20x27x22, 130 lbs sh. USED, ~~$250~~ $175 MANUAL for RL-172, partial reproduction, $10.00

MX-7247/7248 MASTS for guiding field wire; MX-7247 mounts on vehicle rear and MX-7248 (48"L) on front. Masts 1.4" dia; 10 lbs. USED, $20/set w/RL-172 purch.



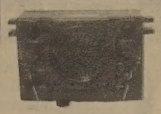
WD-1A/TT FIELD WIRE on RL-159 steel reel; 1 mile (5200 ft) twin lead black vinyl-covered steel wire for EE-8, TA-43/312, TA-1, TA-838. Reel 20" dia; 50 lbs. UNUSED, $125.

Military Speakers

GRC/VRC SPEAKERS have 4" dia cone, large PM magnet & 600:8 ohm trans-former in cast-aluminum case w/ cable & audio plug. 5x5x3.3, 5 lbs. USED: #LS-166 with U-77 plug for R-392, GRC-3--8, etc., $16.00; UNUSED, $25.

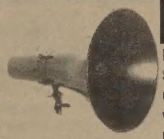
#LS-454 w/ U-229 for PRC-25-77, $18. UNUSED, $28.

Speaker Box



C-847 SPEAKER CONTROL BOX, originally part of VRC-19 VHF radio set but with 8 ohm 4" speaker, C-847 is usable in a variety of audio communications applications. Has Speaker ON-OFF, Volume, Squelch and xmitter Preset Freq select for VRC-19. Aluminum cast; flanges for wall mount. 5x7.5x2.3, 8 lbs sh. UNUSED, $18.95

P-A Speaker



LS-103/TIQ PUBLIC ADDRESS SPEAKER for indoor or outdoor use; conservatively rated for 30 watt output with 50-10000 Hz response. Has 16 ohm voice coil & driver plus matching transformer with taps for 250, 500, 1000 or 2500 ohm input; 19" dia horn. Mounts to 7/8"dia pipe and has lock-joint to adjust angle. Rugged speaker out-performs most new commercially-made speakers with similar "printed" specs! Driver & coil 20.5"L; o/a 26"L, 26 lbs sh. USED, $39.50; 2 for $70.00

MT-128A MOUNTING TRIPOD for LS-103, extends 48"-90"H. Steel, 25 lbs sh. USED, $25 ea. 2 for $45.
RL-3 REEL with RD-110 wire for speaker hook-up; approx 50 ft., 5 lbs sh. USED, $4.00

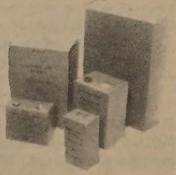
PATCH PANEL

SB-2244 COMMUNICATION PATCH PANEL for interconnect of RTTY and cryp-to equipment. Provides three signal & step-ping circuits to a transmitter-distributor from a crypto xmitter. Each circuit has signal and step loop. Adjustable line current 60 ma (signal), 50 ma (step). Loop has two Loop and Set jacks plus one Miscellaneous. Also 100-0-100 MA DC Line meter, three dual patch cables and manual. Requires 120 VDC for signal & 67 VDC for step battery. 12.1x5.8x6, 17 lbs. UNUSED, $29

INTERCOM BOX

LS-147F INTERCOM STATION, solid-state units provide two-way audio for upto seven locations. Has 3.5" dia speaker in aluminum box with Push-to-Talk lever and Send-Receive controls for adjusting level of 4 watts-max-output. Two spring-loaded terminals on back for 2-wire hook-up; requires 115 VAC 60 Hz. 5.8x7.3x3.5 with 9.3"W bottom mount flange; 6 lbs sh. USED, $22.

Military Batteries



NOT RECHARGEABLE:
BA-40 for BC-620/BC-659 receive section, +90 and +1.5 V; 6 lbs sh. "WEAK", $4.50
BA-48 for Rx sec-tion of RT-77/ GRC-9; 6-CD & 60 A-cells, 1.5 & 90 V. 10x2.2x4.8. 8 lbs sh. "GOOD", $14.95; "Weak" $4.
BA-270 for PRC-6, +90, +45, 4.5 & 1.5 V; 4 lbs. "Weak", $5.00
BA-279 for PRC-8-9-10; 8 CD, 45 B, 45 AA, 8 C-cells, +1.5-67.5-135, -6 V. 8.3x 2.3x8.3, 7 lbs. $9. "WEAK"$3
BA-314 for PDR-27F, 45 FL-3 cells, 67.5 VDC; 6/81 date. 2.8x1.3x2.5; 1 lb., $1.25
BA-416 for PDR-27C, +22.5-67-90-135 V; 10/84 date. 4x3x2.8, 2 lbs sh. $5.95; "Weak", 2/$4.00
BA-4386 for PRC-25-77, 12.5 VDC; 3/80 date. 3.5x9.5x2, 3 lbs sh. "WEAK" only, 3 for $5.00

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MILITARY NICKEL-CADMIUM BAT-TERY PACK, four D-cell batteries in plastic pack produces 4.8 V 3.2 amp-Hr; 3/80 date code. 3.5x5.5x1.5, 3 lbs. #4D2704, 2 for $7.

HEADSETS + MICROPHONES + HANDSETS + TELEPHONE

MATROX/TANDBERG headset intended for language lab use; 200 ohms total. Has padded headband and very comfortable 4" dia covered foam cushions. 7 ft cord with 1/8" dia dual circuit plug; 2 lbs sh. #HS-38086, NEW, $9.95

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HS-32 STRAP HEADSET, one 250 ohm R-18 element, w/ PL-55; for TG-5 keyer. USED, $8.

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H-264/PRR-9 EAR-PLUG HEADSET, coil cord & 2 mm dia jack; 300 to 2500 Hz response. NEW $4

Phone Plugs

PHONE PLUGS, used cutoffs:
PL-68, $4.00 PL-354 red, $4.
U-93A, $4.00
PL-55 on 30" cord, $1.00

JK-33 PHONE JACK to fit PL-68 plug. USED, 2 for $1.00
JK-34 PHONE JACK to fit PL-55 plug USED, 2 for $1.00

DOUBLE PLUGS, unused:
#D178542 (WE289) for head sets, etc. $3.00
#2PPC f/ switchboards, $3.00

HEADSET Y-CORDS:

#3E7385.60, 48" molded cord with 15" legs; 2-pin leads each end. UNUSED, $2.50
#CD-265 27" CORD w/ moulded PL-68's, UNUSED, $2.25
#CD-620F, molded 16"L legs & 6" cord with 2 lugs each end; for HS-30 headset. $2.00
#CO-73A, 9" cloth-covered w/ PL-54 for HS-38, USED, $10.

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CD-604 CORD with impedance matching transformer 500 ohm to 4000 ohm; 6" cord & PL-54 plug. P/o HS-30 headset. USED, $1.50

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CX-2481 CORD with PL-55 one end, PL-68 on other; 12 feet long 2 lbs sh. UNUSED, $5.95

"EXTRA-STRETCH"

PHONE COIL CORDS: #T425-MOD, 4 ft to 25 ft extension w/ modular jacks; tan. NEW, $3.

B212-LUG, 2 - 12 ft w/terminal lugs; 4-cond, black. NEW $2.50

Switchboard Cord

#G2-SWB-72, grey cloth-covered cord with double plug on each end: 72"L, 2 lbs. $6.50
#CX-3443, 24" long cord with double plug each end, $6.75
#B1-SWB-72, black cloth cord w/ single AE-309 0.38" dia plug each end; 72" long. $3.95

H-227 HEADSET w/ two 300 ohm elements in 4" x 3.5" vinyl cushions, 42" coil cord, and U-77 plug. Used with GRC-3--8, GRC-106 radios. OD-green & black; 2 lbs. USED, $17.95

TELEX PH-11 600 OHM single headphone w/ 3.5" x 4" vinyl-covered foam cushions & padder headband. 60"L 2-conductor cord has 3-pin Lemo FGG.1B connector; 2 lbs sh. USED-excellent, $16.95

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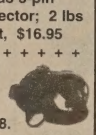

H-5002 HEADSET f/ Canadian CRPC-26 radios. One phone, head web & plug. $8.

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T-30* THROAT MIC w/ elastic strap; no clip. USED-chkd., $15

HAND MICS

GENERAL ELECTRIC MIC from highway patrol vehicles; PTT switch has "C" & "S" positions. Also has amplifier circuit & coil cord w/ DB-9 connector: 2 lbs. sh. USED. #GE-CS-MIC, ~~$9.95~~ $8.

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RCA MOBILE MIC by SHURE BROS. hand-held w/ push-to-talk switch, coil cord and 6-cond plug. 2-Tone green. #559575B, used, $7.00

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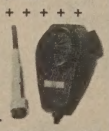

GM DELCO MIC for mobile communications; black w/ PTT switch, coil cord & 5-pin male connector. #GM-DEL-MIC, new $7.

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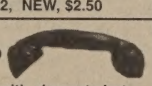
MIC COIL CORD, 1-shielded, 2-wire not; stretches 30"-42". #SH-CC3042, NEW, $2.50



BLACK STANDARD HANDSET, older style with elements but no cord. USED, $6.00
NEWER STYLE w/ cord, $3.00
BEIGE newer style ITT (not com-puter beige), UNUSED, $3.25

PHONE ELEMENTS

MIC ELEMENTS, checked:
F-1 mic for TS-9, $4.00
H-33 or H-189 mic, $5.00 ea
M-51 mic for H-63, M-29, $4.00
TA-117 for H60 (TA312), $5.00
WE #D173011 sound-power mic for TS-10; brass. UNUSED $10

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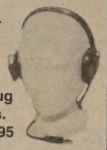
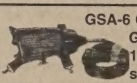
H-33 or H-189 receive, $5 ea
R-14 receive for HS-23, $5.00
T-1 receive for TS-9, $4.00
TA-235 for H-60 (TA312), $5.00

H-63 HEADSET & BOOM MIC, 600 ohm receive & 100 ohm M51 mic elements; with JJ-055 and 3-pin jacks. 3 lbs. UNUSED, $14.95



H-113 600 OHM HEADSET, similar to CW-49507 except O.D. green color with cushions and PL-54 plug on 18" cord; 3 lbs. sh. UNUSED, $7.95

H-16 HEADSET, designed for use in high-noise areas such as tanks, replacing HS-30. 250 ohm elements with matching transformers produce 8000 ohm (series) impedance. Similar to H-65 expect 18" cord & PJO-54 plug. UNUSED, $10.



GSA-6 CHEST GROUP SA-142 PPT-switch & CX-1077 cable w/ U-77 plug connect H-63 headset to GRC radios. USED, $6. UNUSED, $10.

VRC-12 HEADSETS

for RT-246/524, R-442, PRC-25-77 radios with U229 plugs; 150 ohm earphone impedance:

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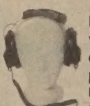
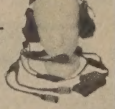
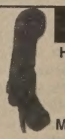


H-251 HEADSET w/ vinyl cushions, 24" coil cord and U-182 plug; black color. USED, $12. UNUSED, $18.



H-161E HEADSET with 300 ohm boom mic, push-to-talk switch, & CX-8652 Y-coil cord; vinyl cushions. BLACK UNUSED, $59.50 H-161C, $45.

HANDSETS



H-250 HANDSET w/ push-to-talk button, coil cord & U-229 plug. USED-CHECKED, $18. M-80C MIC, unused, $14

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H-33/PT HANDSET for GRC-3-8, PRC8-9-10; w/U77 plug. $17.50
M-29B MIC with U-77 plug; for T-195 T-368, etc. USED $12.00
M-52 MIC with 5 foot cord & PL-68 plug. UNUSED, $8.00

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TS-9* HANDSET, p/o EE-8 field phone; 2 lbs. USED, $14.95
H-90 HANDSET, like TS-9 but w/ U-77 plug; $12.00

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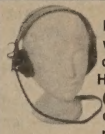
CTE49214 headphones f/ WW-2 MAB radio; no scull cap, $7.50



HS-23 HEADSET w/ two R14 2000 ohm elements, HB-7 headband (not US mfg) 18" cord & PL-54 plug. USED, $22.

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R-14 RECEIVE ELEMENTS for HS-23; USED-checked, $5 ea
MX-41 2.8" Rubber CUSHIONS f/ HS-23 /33 headsets, $3.00/pr
M-301 4" CHAMOIS CUSHIONS for HS-23 or HS-33, $6.00/ pair
CD-307 EXTENSION CORD for headsets with PL-54 plugs like CW49507, H-16, H-113, HS-23/-33; 65" cord has JK-26 jack & PL-55 plug; l#. UNUSED, $3.50

HS-30 HEADSET

250 ohm impedance light-weight WW-2 era set has cord wired to CD-604 500:4000 ohm matching transformer and PL-54 plug; 3 lbs. sh. USED, $9.95

T-45 MIC Carbon type 100 ohm 50 db below 1 mv, flat response with PL-291 two contact male plug, 11" cord. UNUSED, $3.00

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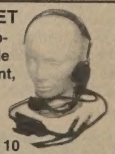
CW-51071 LIP MIC for CW49507 or H-62 headset; 100 ohm, $4.

WW-2 CHEST SETS

T-26A un $7. T-46/TD3, un $7.
TS-11 un $20. H-12, un $7.
H-28 w/ PTT-switch & mic coil cord w/PL-68 plug; 4#. Un $12.

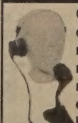
H-195 HEADSET



& BOOM MIC, rubber-covered single 300 phone element, 40 ohm mic & push-to-talk switch. Similar to H-144 except has 10 foot cord with PJO-55 & -68 plugs; 4 lbs sh. UNUSED, $25.

D410SL 600 OHM HEADPHONES, low-cost comfortable language lab-type headset. Unfortunately the plastic headband breaks easily. We will ship 2 for price of 1. NO RETURNS & NO REFUNDS! NEW, 2/$7.00

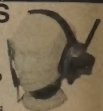
Sound-Powered



CHEST SETS w/ 1024 ohm headset & chest mic for 2-station communications. Mic mounted on metal chest plate with 96" long or > cordage; similar Navy-styles but some minor variations. 8 lbs sh. #SP-CS98, used-EXC $35.00

M-236 SOUND POWER CHEST MIC only, Navy-type PTT; 18 ft cable, 6 lbs. UNUSED, $15.00

WIRELESS



HANDS-FREE HEADSET for two-way FM radio communi-cations in high noise environ-ments. Uses throat mic and ear cushions with EPA noise-reduction rating of 23 DB. Operates on 49.86 Mhz; controls for Volume & Squelch, Velcro adjustable head web and mic straps, 6" antenna and fiberglass case. Requires two 9 V batteries; 6 lbs sh. #7800H, NEW, ~~$99.50~~ $74.50

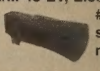
ULTRA-LIGHT HS

STARSET OPERATOR'S HEADSET, ultra-light set fits over the ear with flexible voice tube. Has push-to-talk switch on 4 ft coil cord w/ dual 1/4" dia plug. Includes spare ear tips, glasses clip & pouch; black color. #HS0110-2E, NEW, $34.50

#ACS MICROSET HEADSET, similar to above but light beige color. #ACS-SM-HS, $34.95

P-A MICS

Low-impedance omni-directional for public address use; 150 to 4000 Hz response. Swivel mount; 5/8" dia 27 threads/inch. Cannon XL-3-11SC connector; 2 lbs sh. USED:
#M-2A, $7.95
#M-43-EV, Electro-Voice, $8.95



#M-43-UL, University Loud-speaker mfg. $12..00

CX-3094 MIC CORD with mating connector for above; 3106-14S-7P 3-pin male on other end. 25 ft long, 4 lbs. USED, $7.50
MT-596 TRIPOD MIC STAND for above. Used, $10 ea; 2 for $16

CONTEMPRA Northern

Telecom Mfg phones w/ keypad, ringer and coil cord. These are left-over NON-WORKING units with discolored, scratched, or cracked and cords. Various colors, but NO choice! 5 lbs sh ea. "AS-IS", ~~3~~ 4 for $10.

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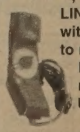

LINEMAN'S HANDSET with rotary dial & plug to monitor phone lines; Northern Telecom mfg. Green; 3 lbs. USED:
#NT-LM-HS, $50.00

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JEN-20 HANDSET w/ AMPLIFIED receiver for hearing impaired; black or beige. NEW, $15.

Brass Dead Bolt

ANTIQUE-BRASS LOCK SET made for gov't. Includes locking assembly, jam receptable, key cylinder & two keys; 2 lbs. #LS-264-7598, NEW, $7.95

BRAKE LIGHT

AUTOMOBILE BRAKE LIGHT, 5.5" W x 2.8" H red lens on black plastic stand; top swivel adjusts light angle. German mfg; o/a 7.5"H 2 lbs. #BL-G10005, NEW, $2.95

12 VDC COUNTER

6-DIGIT MECHANICAL COUNTER 12 VDC non-resettable; black numerals on white. Rear mount flange; o/a 1.3"Hx 1.5"Wx2.5"D 1 lb. #E07B10DC12, NEW $2.95

CANVAS

BAGS & COVERS may be used or unused. May have minor wear, tears or discolor:

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SHOULDER BAGS with adjustable straps; 5 lbs. sh. USED:
BG-175, 10x8x10.5, $6.00
CW-189, 10x9x10, $5.00

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ANTENNA ROLL BAGS for mast sections, USED:
BG-56 for MS-49 thru -56, $14.
BG-174 for MS-116 etc, $7.50
CW-50/TRC-7 for AB-85, $10.
CW-206 for MS-116 etc, $7.00

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CW-863/PRC-74 ACCESSORY BAG for radio set, used, $20.

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GT-120 PAD (used) with M1945 HARNESS (unused) for PRC-8-9-10 radios; 4 lbs. $12.50

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GRC/VRC EQUIPMENT COVER
CW-140 for GRC-9, used. $10.
CW-329 for GRC-3--8, NEW $8.

- - - - - - - - - - - - -

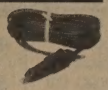
LEATHER FIELD PHONE CASE or EE-8: #CY1181-L, used, $20.

Control Joysticks

Has two 150K ohm variresistors and "FIRE" button. 1.3" H metal control stick; no spring "return". 8 ft cord with DB-9 connector; 2.5x1.4x3.5, 1 lb sh. MA8699, NEW, $5.00

JOYSTICK with pair 50K ohm pots having fixed center-taps; smooth wall action. Brushed aluminum handle. 1.8x2.8x2.8; 1 lb sh. JS-50K-LIB, NEW, $4.50

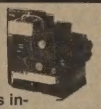
Lighter DC Cord



15 ft cord connects to car, van or RV cigarette lighter allowing use of 12 VDC appliances throughout the vehicle; #16 wire, 2 lbs sh. #LI-C15, $4.00 #LI-C3, 3 ft lighter cord, $2.50

MERCURY THERMOMETER right-angle glass; probably for xtal oven control. #74661725, 4.5" L leg graduated 58° to 62° C in 0.1°.C mark; 7" leg is Hg resevoir. $6.95 #7461727 Mercury Switch, makes contact @ 60° C; wire leads, 3.3"L legs. $5.95

CARD SCANNER



CREDIT CARD SCANNER, uses optical system to read raised numbers of credit cards into a photo array. Small AC motor drives card through reader; w/ connector diagram. 5x5x4, 3 lbs. #ECR2020, used, $4.95

20 Hz Ringer

20 HZ INVERTER MODULE used in telephone equipment; produces 20 Hz 65 V 50 ma ringing signal from 110 VDC 65 ma input. 3.4x 2x3, 2 lbs. #E10/TA182, $12.00

DISPLAY CARDS

12-DIGIT FLUORESCENT DISPLAY, 3/8" digits 0 thru 9,-,-,í, and decimal point. Tubes 2"H plug IC's, transistors, etc. 9x8.5x2.5, 4 lbs sh. #POS-2, $3.50

#QP-3304, similar to above but 5/16"H characters, 1-5/16"H DG-10A tubes; 21 xistors, IC's etc. 5.3x3.4; 3 lbs sh. $3.00

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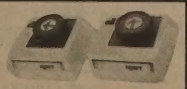
INDUCTOR PC BOARD has 3 200 uH and 2 1200 uH inductors 3/4"H x 1-3/8" dia; also 3/4000 mf 20 V, 3/3000 mf 25 V axial caps, xistors etc. 3 lbs. #54-014535, $2.

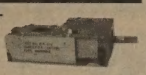
IMPRINTER LOGIC BOARD with three each P&B JRA-1012 SPST 12 VDC reed relays, regulators, & 0.02 mf 1 KV discs; also 2/C4003. 2 lbs sh. $3.00

VIDEO PADDLES



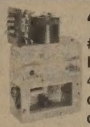
KRAFT COMPUTER PADDLES each have 100K ohm pots, FIRE button & 4.5 ft cable with DB15 conn. Each 4.3x3, 4 lbs sh. #KR820-005, NEW, $3 per pair

DEHUMIFIER



HONEYWELL DEHUMIDIFIER CONTROL as used in home dehumidifiers. Plastic element tape senses humidity and "opens" normally-closed 120 VAC contacts; has variable control. 1.8x4.5x1, 1 lb. #H46A1103, unused, $2.95

4 GHz AMP



#ED63919-31 AMPLIFER, uses WE-416B tube with 3/8" dia screw port adjacent to tube grid cap; silver -plated brass 5.8x 3.5x1.4, 4 lbs. USED, $17.95 CONNECTOR for above $3.00

LIGHT INDICATOR FUSEHOLDERS for 3AG fuses; 1.6"D behind panel. O/a 2.9"L; used: #FU-HKX, 22-33 V amber, $2. #FU-HKL, 115 V, clear $2.50

Cord Covers

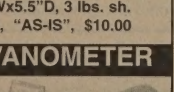
WOODS OFFICE PRODUCTS CORD COVERS, conceals & secures 5/16" dia computer & similar cords; 6 ft long, 3#. Select colors: black #5611 or beige #5609. NEW, $5.95 ea. 2 f/ $10.

RHODES 60 SEC TIMER, times from 2 to 60 seconds; bell signals time elapsed. 3ï dia plastic case; 1 lb. sh. #56414, NEW, $2.50 each.

PANEL METER

DATA TECH 0-20 VDC DIGITAL PANEL METER, uses Sperry 7-segment 0.5"H readouts. 10 meg ohm imped.; autopolarity, OVP. Requires 115 V 60 Hz. Units have "weak" displays and/ or "bad" segments. 1.9"Hx4"Wx5.5"D, 3 lbs. sh. #5313-220, "AS-IS", $10.00

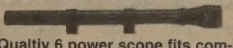
GALVANOMETER



Used in test bridges to indicate slight variations in current; 1 mm increments: LEEDS & NORTHROP #18876, 10-0-10 scale, sens 0.1 ua/mm. CDRX 10K ohms; 500 system res. Period 4 sec; w/ Balance "lock". Behind panel: 4"D x 1" dia; front 3"H. NEW $25.00

GALVANOMETER 15-0-15 scale, sens 1 ua/mm. Meter coupled to mirror for photo-optic read. No Balance "lock". Behind panel 3"D x 2" dia; front 2.5" di, 2#. #GALV-726667, $18.00

Weaver D6 Scope

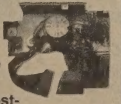


Qualtiy 6 power scope fits common rifle mounts. Unfortunately scope is without cross-hair. Still a nice low-cost spotting scope! 12.3" long, 2#. NEW $15

PARTS GALORE

TELEMETER PROGRAM SELECTOR part of an obsolete pay TV system which featured prerecorded tape program review, coin deposit register mechanism, and audio amplifier-power supply with 4" speaker. Generates 8 Mhz signal to trigger mechanism and 35 Mhz video output. Tape magazine has recording head and plays 66 ft of 1/4" tape in continuous loop. Mechanism has 5 RPM Cramer 115 VAC motor + other motor, gears, etc. Power supply output 150 VDC 100 ma and 6.3 V 3 amps. Tube line-up 3/6U8, 6BE6, 6BA8 &12BH7. Cabinet 15x7x7, 2l lbs. sh. Bargain price is worth the tape magazine, coin mechanism, power supply, or tubes alone. NEW, $9.95

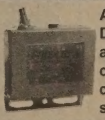
TIMER BONANZA



CARTRIVISION TIMER CONTROL, part of early home video system; cheap gizmo with interesting parts: 115 VAC timer motor with upto 8 hr delay and SPDT contacts, 18 V 200 ma transformer, 12 VDC SPDT relay, SPDT & 4PDT slide switch, etc. 3.9x9.5x2, 2lbs. #CV-TC87, $1.

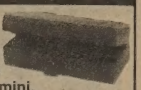
TS-268E CRYSTAL RECTIFIER TESTER, measures front and back resistance and back current of IN-21-23-25-26-78 xtal diodes on 2.5" MA-meter. Requires D-battery. 7.5x4.4x5.8, 6 lbs sh. USED, $16.95; UNUSED $22. MANUAL, $8.50

FIRE CHEX



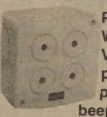
AUTO SHUTDOWN DEVICE automatically disconnects a vehicle's electrical system in a collision. Also use of its 80" spline control allows Fire Chex to manually "shutdown" electrical systems making it more difficult for a thief to steal a vehicle. With spline, fused line, mount brackets, info. 4.5x4.5 x1.8 6 lbs. #FI-CHX, NEW $5.95

SPARES BOX



CY-684 EMPTY SPARES BOX for GRC-3--8 radio; can hold 26/7 -pin mini, 5/GT-tubes & vibrator. Aluminum w/ hinged top & latch; 3x10.3x5, 3 lbs. USED, $7.00

SOUND BOMB



PIEZO ALERT WARNING DEVICE, 6-12 VDC produces 105 db piercing Hi-Lo beep. 4.2x4.2 x1.8, 1lb. #MG-SB-2, NEW ~~$14.95~~ $11

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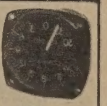
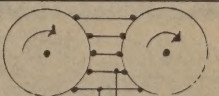
FARADAY 48 VDC 100 ma HORN, made for Bell Telephone; makes loud, penetrating sound w/ screwdriver volume adjust. Steel construction; recess mount. Front size 4x4x1.3 1.3" panel depth. 3 lbs sh. #KS-12037L2, NEW, $5.95

ADAPTABEL INDUSTRIAL ALARM BELL, 5.8" dia bell operates from 6 VDC 250 MA for non-fire use. Heavy metal cast construction with mount hardware; 3 lbs. Edwards #435-6C1, NEW, $9.95

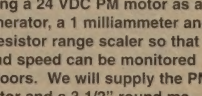
Compass Indicator



3" DIA 0-360 degree RADIO COMPASS INDICATOR, adaptable for wind direction & antenna position use; 5 degree increments, 2#. #I-81, used, $13. #ID-91/ARN, 2 deg incremt, $16.



WIND DIRECTION INDICATOR using 26 V 400 Hz selsyns. Design your wind vane and indicator for monitoring wind direction from indoors. Two selsyns required for project; 2 lbs sh. #WIND-SEL, used, $9.95 each



WIND SPEED INDICATOR using a 24 VDC PM motor as a generator, a 1 milliammeter and a resistor range scaler so that wind speed can be monitored indoors. We will supply the PM motor and a 3 1/2" round meter; you design the rest; 2 lbs. #WS-MOTOR & METER, $9.95

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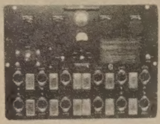
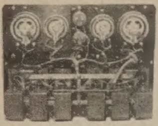
AY-1 AUTOSYN as used in I-81/ I-82 indicators; 1 lb, $7.50 ea

DC LOAD PANEL





"Loaded" with prime "clean" parts for DC power projects! Panel includes:
* 0-30 VDC METER
* 0-30 DC AMMETER
* 4 ea 50 MV SHUNTS
* 4 RHEOSTATS:
  2 ea 225 W 3 ohms
  2 ea 150 W 2 ohms
* 12 Circuit Breakers:
  6 ea 32 VDC 8 amps
  6 ea 32 VDC 20 amp
* 12 ea 1N1184 DIODES
* 4 ea 2.4" dia KNOBS and

other parts. Panel is sold "less its On-Off and 4 STA selector switch. 18.8x23x6, 30 lbs. #DAV-LCP, $49.

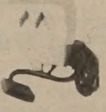
SOLDERING KIT

WELLER SOLDER / DE-SOLDER STATION with TCP-24G 48 W pencil iron, eight solder tips from 3/64" to 1/8" wide, 600 or 700 F; six desolder tips with orifices .038" to .090"; and 2.5"H x13"W x4"D steel carrying case. Requires 115 VAC 60 Hz; 7 lbs. #WTCPK, UNUSED,$69.50

SCR Heatsink

SILICON CONTROL RECTIFIER assembly single phase half-wave; GE #C1411CX5 or equivalent. Rating approx 500 V 35 amps. 7x6.3x5, 4 lbs sh. #KS-19576L1, USED, $6.95

9.5 VDC Adapter



AURORA TOY WALL TRANSFORMER, changes 120 VAC to 9.5 VDC 350 ma output. 6' cord with slide lugs; 2 lbs sh. #AUR-95V34VA, 2 for $4. CERVCO AC ADAPTER, 11.5 VAC 175 ma out-put; 6' cord w/o lugs. #CER-11.5V, 2 for $3.

500 W INVERTER

12.6 VDC to 120 VAC 60 HZ INVERTER, rated 500 watts continuous; 1000 W surge. Output is squarewave with zero-crossing. Has studs for input & terminal strip for output; 3.6x9.1 x13.6, 17 lbs sh. #RC-12500, NEW, ~~$149.50~~ $109.50

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#RC-12200, 12 VDC to 115 V 60 Hz 200 W cont., 600 W surge; 3-cond outlet. 3x7.5x4.8, 7 lbs. NEW, ~~$85.~~ $65.

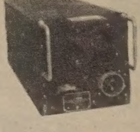
650 A Rectifier

MOTOROLA MR1265FL RECTIFIER rated 300 PIV 650 amp; with hardware. 3.3x 2.3x3.3, 3#. NEW, $17.50

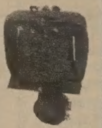
REGULATOR MODULES from Sun supplies, each with current limit and voltage adjust. Includes bridge rectifier, filter capacitor, two 2N3055 or equal and 723 regulator; 2 lbs sh. #SUN-REG-124, 12 V 4 amp, $10. #SUN-REG58, 5 V 8 A w/OVP; $8.

SWITCHING POWER SUPPLY with 3" axial fan. Outputs +5 V 10 amp, +12 V regulated 2.5 A, +12.5 V 5 A unregulated from 115 VAC 50/60 Hz input. P/o Wang equip. 2.6x5.1 x12.5, 7 lbs. #12690, used, $14.

2.5 KW AC Inverter

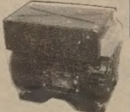


PP-2352/UR ELECTRONIC INVERTER, used with AN/TRC-75, output 115 VAC 400 Hz 2.5 KW 3 phase, 1 phase sinewave. Input 28 VDC 110 A. Connectors not available. 7.6x 7.8x19.5, 52 lbs. USED, $125.00 MANUAL, partial repro, $12.



400 HZ INVERTER KIT removed from PP-2352; good foundation for 28 VDC to 115 VAC 400 Hz 500 watt 1 phase inverter. Includes oscillator feedback, driver, output, & regulator transformers, two saturable reactors & schematic info. Add other components to suit your power needs; 10 lbs. #KIT400HZ-500W, $49.50

750 W Inverter



ROTARY INVERTER, output 115 VAC 400 Hz 1 phase 750 VA from 28 VDC 60 amp input; Leland or =. 12x9.5 x7, 42 lbs. GOV'T-RECOND, ~~$69.50~~ $57.

#R-INV1500-1, 115 VAC 400 Hz 1 phase 1500 VA output from 25-28 VDC 92 amps input. Older style Leland mfg; 9.3x17x7.3, 54 lbs sh. UNUSED, $49.50

#PU-16/AP INVERTER, like above except 750 VA out from 28 VDC 60 A in; 9.3x16.5x7, 40 lb

compass inverter

DC to AC INVERTER for aircraft radio compass indicators. Input 24 VDC 1 amp output 26 VAC 400 Hz 1 phase 6 VA; 3.3x3.8x3, 3 lbs sh. Pioneer #12117-6, UNUSED $16.95

NI-CAD CHARGER

PP-6241 SOLID-STATE BATTERY CHARGER for silver-zinc or nickel-cadmium types. Three independent charging units with outputs 8-16-32 VDC or 0-36 VDC in 0.1 V steps; 1 or 2.25 amp charge. With cables CX11971, CX11972, and CX11973. Requires 115 VAC 45-440 Hz input. 11.5x 13.8 x11, 46 lbs. With book: USED, $55. UNUSED, $79.50

Lambda Supplies

#LP-532-FM, output 0-40 VDC 3 amps max from 105-132 VAC 47-440 Hz input. Has meters 0-40 VDC and 0-5 amps DC, front panel adjust Output Voltage and Current Limit; also red-white-black terminal posts. 5x8.3x16, 26 lbs sh. USED, $165.00

#LT-803, 0-36 VDC 34 amps max; similar to above, but 220 VAC input & digital readout. USED, $350.00

28 VDC 1 AMP MODULAR SUPPLY on metal L-bracket from "unused" equipment. Has output adjust pot; requires 115 VAC 60 Hz. 4x4.5x2.5, 4 lbs sh. #EST-30-281, $10.95

Switching Supplies

HEAVY DUTY SWITCHING SUPPLY, outputs +5 VDC 28 amps, +12 V 4 A, +24 V 1.5 A from 115 VAC 60 Hz in. W/ ON-OFF switch, & 16-pin Molex output connector. "AS-IS complete, no schematic" 2x5x13, 6 lbs sh. #SWPS-528, $9.95

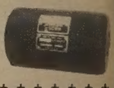
POWER SYSTEM switching supply, outputs +5 V 7 amps, +12 V 3 amps, -12 250 ma, -5 300 ma from 115/230 VAC 50-60 Hz input. 7.8x 4.4x1.5, 3#. NEW: #PS1558, $15.00

Dynamotor Supplies

DY-107/AR DYNAMOTOR SUPPLY for ARC-44 radio. Output 138 VDC 140 ma, 310 VDC 30 ma, & 27 V 400 Hz 3 phase 10 VA; input 27 VDC 3 amps. 5x 9x3, 10 lbs sh. USED, $37.50

DY-118/ ARC-38 DYNAMOTOR SUPPLY provides voltages for RT-311, -594/ ARC-38A from 28 VDC 30 A input. Output: 600 VDC 550 ma & 250 VDC 150 ma; also +28, -50, -65 V. 4.9x6.8 x18.3, 25 lbs. USED, $35.

DY-79/PRD1 DYNAMOTOR SUPPLY for R-395 DF receiver; 24 VDC input. With 3 tubes and 2 ballasts; 10x14x16.6, 22 lbs sh. GOV'T-RECONDITIONED, $75.00



#3H1514-5 DYNAMOTOR, input 5.5 VDC 31 amps; output 600 VDC 175 MA. P/o VRC-2 radio; 6.5"Lx4" dia, 8 lbs sh. UNUSED, $14.95

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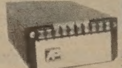
DM-32, 28 V for SCR-274/ARC-5 receivers, used, $17.
DM-33, for BC-456 or MD-7 modulators, used, $32.50
DM-36 re-new $15 D-10A used $7. PE-86 used $12.
DM-40A, for BC-652 (SCR-506), used, $27.50
DM-53 used $6. D-401 used $12 PE-94 used $28.
DM-53 12 V $8. DY10/ARC1 $14 PE-133 used $10
DM-64 used $10. DY-86/ARN-30 $7.
3H1514-22 DYNAMOTOR for RBM Rx. UNUSED, $20.
#2C4312/B50 HINGE SET f/DM-21in BC-312/342, $7.00

DC Converter



ADTECH DC to DC CONVERTER, 28 VDC input; outputs 5 V DC 10 amp & +/-15 VDC 2 A. 2.3x4.8x10 5 lbs. #3DD5-15N, NEW, $12.

ASTEC DC to DC CONVERTER designed for PC mount; +5 VDC input produces 12 VDC 85 ma output. 1.2x1.5 x1, 1 lb. #AA7210, NEW, $2.95 ea; 2/$5.00

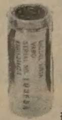
PE-104A Converter

PE-104A VIBRATOR POWER CONVERTER, used in World War-2 BC-654 Rx-Tx (SCR-284) 6 or 12 VDC input; produces 90 V, -45 V, 1.5 VDC output. 4x4x7, 10 lbs sh. UNUSED, $24.95

COLLINS DC Supply

COLLINS 516E2 DC POWER SUPPLY for KWM-2 and S-Line xmitters; requires 24-28 VDC input. Solid-state; will not power 30 L1. 10x6 x7.5, 24 lbs. Used, $59.50

VARO HV SUPPLY



VARO 3093A HIGH VOLTAGE DC SUPPLY, mini-size designed to power night-vision scope. Puts out -8 to -14 KV from 3 to 6 VDC input of C- batteries (not supplied). Case positive; 2.5"Lx1" dia., 1 lb. CHECKED, $24.95

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#077-1688 HV SUPPLY, similar to above except output 16 KV from 1.5 VDC input. NEW, $39.50

HIGH VOLTAGE DIODE 3 PHASE "Y" BRIDGE from 2000 VDC power supply; six submodules each with ten 1N1095 diodes & 5 capacitors series-parallel. 3.3x2.3x3.7, 2 lbs. #1540/ARC-58, $6.00

PRC-77 Backpack Radio

RT-841/PRC-77 TRANSISTORIZED BACKPACK TRANSCEIVER, 30-75.95 MHz FM in bands 30-52.95 MHz (Lo) and 53-75.95 MHz (Hi) with 50 KHz spacing. Output: 1.5 to 4.0 watts; 150 Hz squelch. Provision for presetting channels. Requires 12.5 - 15 VDC 800 MA supplied by BA-4386 battery. Uses same accessories as PRC-25; 4x11x14, 18 lbs sh. USED-complete, $400.00

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MANUAL for RT-841/PRC-77, partial repro. $20.
AT-892/PRC-25 RIBBON ANTENNA, used, $12.00
AT-271/PRC 7.5' SECTIONAL ANTENNA, used, $12.
AB-591/PRC RUBBER BASE for AT-271, used, $6.
CW-503/PRC ACCESSORY BAG, used, $6.00
H-250 HANDSET or = for PRC-77, USED, $18.00
OPERATOR'S MANUAL f/ PRC-77 & AM-2060, $10.

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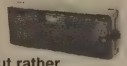
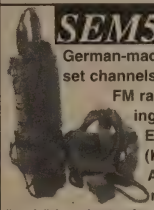


U-383/VR POWER SUPPLY CONVERTER for RT-841/PRC-77, clips onto RT-841 like battery box allowing operation from 24 VDC input rather than 12 VDC. Not usable with RT-505/PRC-25 unless bias voltage modified. 10x4 x2.5, 4 lbs sh. USED, $27.95; CONNECTOR for U-383, $6.00

SEM52 VHF Radio



German-made unit can operate on six preset channels (2 supplied) in 47- 56.975 MHz FM range @ 300 MW; 25 KHz spacing. Has Off-On-Squelch (AUS-EIN-RSP), Volume & Channel (KANAL) select. Requires six AA-batteries. Includes RT, 35" ribbon antenna w/ flex base, "web" headset-mic and carrying bag. May not comply with FCC regulations. 7.1"Hx 3.4"Wx1.5"D, 4 lbs sh. USED-clean, NOT-TESTED, $125.00

GN-58 Generator

GN-58 HANDCRANK GENERATOR for BC-1306 & RT-77/GRC-9 radios. Outputs 425 VDC 115 ma, 105 VDC 32 ma, 6.3 VDC 2.5 amps, 1.4 VDC 465 ma. Requires GC-7 cranks (not available) and legs (2) & seat listed below. 10.5x 7.5x8, 27 lbs. USED, $45. LG-3 LEGS, used, $5 ea
LG-2 LEG/SEAT for GN-58, 12 lbs. UNUSED, $18.
CD-1086 CABLE, GN58 to RT; 44" long, $15.00

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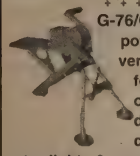
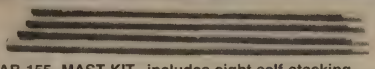


G-76/G HANDCRANK GENERATOR, powers PRC-70 backpack transceiver & charges BB-542 battery. Unfolds to make 3-legged seat for operator to crank generator producing 24 VDC 2 amps. Power conditioning module has two indicator lights & regulator. With CX-13175 & CX-13176 cables and canvas bag. 32 lbs. USED, $149.50

Channel Alignment

ID-1189/PR CHANNEL ALIGNMENT INDICATOR for testing AN/PRR-9 helmet receiver and PRT-4 transmitter. 47-57 MHz FM signal generator; checks both sets' batteries. Operating info & probe included in cover; 12x11.5x6, 16 lbs sh. USED, $65.
#PRR-9 RECEIVER with earphone, antenna, & operator manual. 7x 3.5x1.5, 3 lbs. UNUSED, ~~$50~~ $40
#PRT-4A TRANSMITTER, 2-channels, Tone -Voice; 9x3.6x2, 2 lbs. W/antenna & bat-box, UNUSED, $40
SERVICE MANUAL f/ PRR-9/PRT-4, part- repro, $15

Field Day Mast Kit



AB-155 MAST KIT, includes eight self-stacking 66"L x1.6" dia aluminum MS-44 mast sections to make 40 feet mast. Also 4 each guy ropes MX-381 (40 feet), MX-382 (31 ft) , MX-383 (50 ft), one MX-516 rope, 5 each MX-378 guy rings, AB-154 swivel base, six GP-101 15" stakes and HM-1 hammer. 70 lbs sh. UNUSED, $145.00

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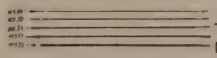
TRIPOD ADAPTER, uses three MS-44 as legs to "free" stand mast to 24 ft without guy support; 4 lbs sh. #TRI-AB155, USED, $12.50
AB-154/U SWIVEL BASE, sticks into ground and pivots MS-44 to vertical; 3 lbs sh. USED, $9.00
MX-381/GRA-4 GUY ROPE, 40 ft long; 3/16" nylon 800 lbs-test; w/ hooks & insulators, used, $4.00
MX-382 31 ft, $3.00; MX-383, 50 ft, $5.00

Whip Mast Sections



3-FOOT MAST SECTIONS (left), WW-2 & Korean War-vintage: painted copper-coated steel. Sequentially screw into the other; 3/16" dia MS-49 top section the smallest. Self-supports to 15 ft; MS-53 can fit into another MS-53; 1 lb sh. May have surface rust; MS-49-50-51-52-53, used $3. ea. MS-54, $6 ea. MS-55, $7.50 each. BG-56 canvas bag, $14.00
SAUCER CERAMIC BASE fits MS-53, 5" dia x 1.5"H + 3/4"H terminal; 3 lbs sh. #INS/TRC75, $10.00

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MS-116-117-118 MAST SECTIONS, each 39.3"L. MS-116 is stackable bottom section, MS-117 middle and MS-118 tapered top; fit AB-15, AB-652, MP-65 & UG-558 bases. 1 lb sh ea. USED, $3.50 ea
AB-21-22-23-24-MAST SECTIONS, similar to MS-116-117-118 except 27" length each. AB-21 is bottom section; 1 lb each. USED, $3.25 ea

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AB-15 MAST BASE for MS-116-117-118 or AB-21-22-23-24 masts; O/a 15"L, 3 lbs sh. USED, $8.00
MP-65 MAST BASE, similar to AB-15 except 4"L x3" dia insulator; o/a 17"L; 4 lbs sh. USED, $12.
UG-558 BASE for MS-116-117-118; mounts to SC-D-189023. 16"Hx6"dia; SO-239 conn. USED, $10.
AB-652 ANTENNA BASE for MS-116-117-118 mast p/o GRC-106. 20"L; 6 lbs sh. USED, $20.00
IN-127 BASE, holds 3/MS-116 & 1 each MS-117-118 for RT-77/GRC-9; 14.5"L black plastic. USED $12.

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ANTENNA MOUNT BRACKET for mounting 2" dia antenna bases like AB-15 or similar to vehicles or other flat surfaces. Mount plate 6.3"W x4"H; base hole center extends 3.9" from plate. 4 lbs sh. #SM-B114371, UNUSED, $9.95

ANGLE BRACKET for attaching MP-50 or similar mount bracket to corner of vehicle. Bolts for MP-50 & drilled for side mount; 5 lbs sh. #SCC-28591 NEW $9.95

Homing Antenna

AT-339/PRC HOMING ANTENNA for use RT-176/PRC-10 transceiver. Fold-out handheld diamond-shaped loop tunes 47-55.4 MHz; 5-position attenuator, Sense-Normal switch and 48" BNC cable. O/a 24"Hx13.5"Wx3.5"; collapses to 12.3x3.3x3.5, 7 lbs sh. USED, with bag, $25.

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AT-784/PRC LOOP ANTENNA for PRC-25 -77; covers 30-76 MHz in 5 bands. Includes AT-1082 loop w/whip, CG-2840/-3344 cables & bag. USED, $34.

DUAL UHF CAVITIES

DUAL SILVER-PLATED UHF ANTENNA COUPLER CAVITY part of system which allowed four receiver/xmitters (140 W) to use single antenna. Each cavity 14.5"Lx6" dia has quarter-wave variable stub (0.2" per turn X 28 turns) over 225-400 Mhz. Input & output loop-coupled; cavities aperture-coupled. Also 8 tracking slugs. Unloaded Q = 4000, loaded Q 700. Insertion loss 2 DB. (We attached a disk to the moving stub which reduced frequency to below 140 Mhz.) Unit has electro-mechanical drive for 19 preset and one manually selected frequency. With weather-tight aluminum cover. Requires 28 VDC, 6.3 VAC, 115 VAC 60 Hz for motor and chopper. 15x9.5x24, 45 lbs sh. #CU-SRA-33, USED w/info, ~~$79.50~~ $69.50

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C-4586/SRA-33 CONTROL-POWER SUPPLY with cable for above, 45 lbs. USED, $75 w/set purchase.

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AN/SRA-33 COUPLER SET in heavy aluminum frame. Includes four cavity-coupler units, power supply, cables, RF selector switch, four power meters & manual. 48x22x27, 350 lbs. USED, ~~$375~~. $300
MANUAL for SRA-33, partial repro, $15.

9 GHz Source

VARIAN VSX-9031H MICROWAVE SOURCE frequency 8.85-9.45 GHz varies with control voltage approx 5-45 V via subminax conn.; output 12.5-16.0 DB max. Heater =28 VDC; oscillator =15 VDC. SMA RF connection. 2.5x2.8x1.3, 1 lb. NEW, $79.50

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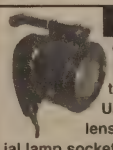
1700-2600 MHz WAVEMETER, 20-turn vernier tunes in incrments of 1. BNC connections; 1N21 diode output. On 3.5"W bracket; o/a 4.8"Hx2", 2 lbs sh. #SMD-302123, used, $24.95

SPEECH AMP

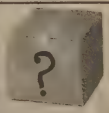
AM-2306/TRC-75 AUDIO AMPLIFIER ASSEMBLY with AM-476C audio amp which processes 150 ohm receiver and 5 ohm mic inputs into 150 ohm phone audio during Rx-Tx operations. AM-2290 amp provides 2 watt 30 ohm: 600 ohm speaker output. Requires 28 VDC input; 4.4x4.510, 6 lbs sh. USED with schematics & mating plug, $22.95

SIGNAL LIGHT



CANADIAN MORSE CODE SIGNAL LIGHT mirrored reflector tilts by trigger in handgrip; site tube on top. Usable as spot light. Includes clear lens, 10 ft cable & carrying case. Special lamp socket; lamp not included. 9x6.3x8, 15 lbs. #CAN-5A, used, $15.00; LAMP, $4 w/set purchase.
EXTRA LENSES: clear, red or green, $1.50 ea

GRAB BOX



ASSORTMENT of used and unused-commercial and government electronics parts such as assemblies, motors, coils, transformers, chokes, circuit boards, capacitors, resistors, and other usable items. Packed in 50 lbs cartons:

$12.00 each or 2 cartons for $21.00

(UPS shipping charges vary from $10 to $29 per box. Allow for charges!) GRAB BOX is good "fill" to make 150 lbs motor freight minimum wt rates!

TRANSFORMERS

All 115 VAC 60 Hz primary unless otherwise noted; styles as indicated; may be "used" or "unused":

Styles (A) (B) (C)

High Voltage

SECONDARY SIZE WT STOCK # PRICE

375 VCT 50 MA 2.5x3x2.6 (B) 3 #8316527 $5.50
6.3 V 2 amp (230 VAC only primary)
450 VCT 35 MA 3x3.8x3.8(A) 7 #TF1A03YY $6.95
6.4 V 5.2 amps; also 6 V vibrator pri for HV only

800 VCT 124 MA 4.3x5.8x3.6 14 #TF1SX03LA $15
5 V 3 amps, 6.3 V 8 A (A)
820 VCT 100 MA 4x5x4.4(A) 14 #T1/TS382 $12.95
5 V 2 amp, 6.3 V 2.5 A, 6.3 V 1.25 A
830 VCT 360 MA 5.1x5.3x5.1 20 #T7/MD129 $25.
(280 VDC 500 ma int. full-wave rectification)

1232 VCT 50 MA, 4.3x5.3x3(A) 10 #146-44-1 $9.95
tap 437 V 15 ma, 5 V 2 A, 6.3 V 2.5 A, 6.3 V 3.2 A
1400 V 100 ma 3.5x4.5x3.5 (A) 12 T2/419A $12.
tapped 700 V 25 ma
1752 V 270 ma 5.5x4x4.5 (C) 20 T1/AM6154 $45

2250 VCT 575 ma 4.3x6.3x4.8(A) 30 #T6/MD129 $50
1250 MWV

Low Voltage Transformers

SECONDARY SIZE WT STOCK # PRICE

2.7 V 10 amp 3.8x6.2x3(A) 10 #SMB202908 $8.95
two 5 V 2.1 A, 6,4 V 3.8 A

Two 5 VCT 3 A 3x3.3x3.4(C) 7 Stancr #P-6333 $9.95
7.5/6.3 VCT 3 amps, 6.3 VCT 4 A
Two 5 V 2 amps 3.5x4.5x3.5 (A) 9 #T1/419A $7.50
6.3 V 5.5A, 6.3 V2.4 A
5 VCT 4 amps 2.3x4.8x2.3 (A) 4 #T5VC-4A $7.50
5 VCT 12 amp, 7.8x4.3x3.5 (A) 14 #9T35Y150 $15.
5 VCT 6.5 A

6.3 V 5.5 amp 3x5.3x3.3 (A) 6 #762805 $5.50
6.3 V 2.75 A
6.3 V 3.6 amp 3.1x3.5x3.9 (A) 4 #762806 $4.50
two 15 V 4 ma
6.3 VCT 10 amps 3.6x4.6x3.6 (A) #T5/MD129 $14.
two 2.5 V 10 A, 2.5 V 6.5 A
6.3 VCT 15 A 3.3x5x3.9 (A) 8 #BX-1475 $15.00

6.6 V 2.7 amps 2.5x4x2.3 (A) 3 #9T35Y321 $5.00
6.6 V 4 amps 3x4.5x2.5 (A) 5 #9T35Y242 $6.00
6.6 V 10 amps 3.9x4.8x3.4 (A) 7 #81G401 $7.50

12 V 9 amp, 5.3x4.3x4.8(C) 22 #P-601719 $8.95
12 V 3.2 A, 12 V 2 A, 44 V 2.5 A. (12 V windings can be wired to produce 12 V 14 A)

24 VCT 3 amp 4.5x3.8x3.3(B) 8 #KAL-2334 $5.95
40 VCT 575 ma, 105 V 350 ma

32 V 5 amps 3.3x2.8x2.3(C) 4 #X5157308 $5.95
38.9 V 4 amp 2.6x3.8x3.5(C) 5 #021/0220050 $7.50
tapped 26-9-3-0.9 V, 150 VCT 200 ma

AUDIO TRANSFORMERS

#T1/AM20 OUTPUT TRANSFORMER, 9000 ohms CT: 600/250/125/60/30 ohms, 20 watts 50-10000 Hz; 3.4x4.3x3.1 (A), 6 lbs sh, $18.00
#T3/AM20 INPUT TRANSFORMER, 100 ohms :100K ohms; 2.3x4x2.3 (A), 2 lbs sh. $6.00
#T2/SG-15 (A), 13000 ohms CT : 25/1000 ohms CT, 200-35 KHz; 3x3.5x2.5 (A), 3 lbs sh. $7.00
#T1/LS166 (A), 600 ohms to 8 ohms 2 watts; 1.6"H x1.3" dia (A), 1 lb sh. $9.50
#502-5442 (A) , 62500 ohms to 1340 ohms, 100-10000 Hz 5 ma. 1.9x3x1.8, 1 lb. $4.50

CHOKES

All sealed (A) types:

#L1/MD129, 1.9 Hy 800 ma 45 ohms 1500 wv; 3.6x 4.9x3.3, 9 lbs. USED, $10.00
#L2/MD129, 3 Hy 500 MA 25 ohm 800 wv; 3.6x4.9 x3.3, 8 lbs sh. USED, $12.00
#L1/TS419A, 6 Hy 100 ma 135 ohms 1500 V test ; 2x2.8x1.9, 4 lbs sh. USED, $8.95
#L1/URM-26 CHOKE , 11 Hy 75 MA 400 ohms 750 V test; 1.9"Wx3"Hx1.9"D, 2 lbs. USED, $8.50
#L2/AM20 CHOKE, 15 Hy 5 ma 400 ohms; 1.9"Wx 3"Hx1"D (A), 1 lb sh. USED, $4.00

TRANSFORMER-POWER SUPPLY

Pri: 2 x115 VAC 48-62 Hz. Sec: 570 VCT 200 MA, 25 VCT 1.2 amps, 6 V 8 A. On chassis w/sockets for two 26Z5 tubes; 20 lbs. #PS-R390A, used, ~~$30~~ $25.

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1510 V "Y" TRANSFORMER, primary 200 V delta 3 phase 400 Hz; sec: 1510 V "Y" 500 ma; originally produced 2000 VDC for 1 KW xmitter. Usable with some automobile alternators to run high voltage equipment. 4x4.5x2.5, 5 lbs sh. #T1/T730, used, $20.00

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150 WATT MODULATION TRANSFORMER

Primary: 5500 ohms 3 KV test. Sec: 600 ohm CT, 2400 ohms (3 KV test), 50000 ohms CT. Response 1 to 20 KHz; 4.6x5.4x4.2, 12 lbs sh. USED, $20.00

Reflex Klystrons

SRL-7H for 2160-2400 Mhz; Requires 6.3 V filament, -1000 VDC beam V; reflector volts adjust -1300 to -2000 V. Has Coarse & Fine Tune slugs, N-conn & octal base. 6.5"x5.2"x4.5", 4 lbs. UNUSED w/info, $49.50

SPERRY 2K41, 2660-3310 MHz, 20 mw-2.7 W. Heater 6.3 V 1 A. Beam 300-1250 V 15-60 ma. Reflector 0 to -750 V. Has in-tegral tuner & resonant cavity; oc-tal base. 4.5x5.5x2.3, 4 lbs. UNUSED, $45.00

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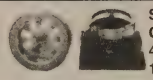
VARIAN VA-98M/8901 KLYSTRON, 23.6 - 24.4 Ghz 100 mw CW; Eb=500 V @ 40 ma. 2.8"Lx 1"Hx1.3"D w/ 6"L wire leads; 2 lbs sh. NEW, $125.00

4CX Socket & Chimney



SK-630/636 TYPE SOCKET & CHIMNEY SET for 4X150/ 4CX250/350 tubes. Socket has 1100 pf screen bypass capacitor with cathode ground. Black plastic chimney is 2.6x2.6 at base and includes locking clamp; Eimac or Johnson =. USED, $19.95 per set

#4X150/T195, two 4X150 sockets on 4.3" x 2.9" chassis w/ 1.1"H bakelite chimneys. USED, $10.

#410-S ORON TUBE SOCKET for 3-500Z, 4-400A, 4-125A 5-pin PA tubes. Stainless steel 3.6" dia (92 mm) ring has ceramic insulated silver-plated contacts. NEW, $27.50; 2 for ~~$50~~ $47.

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JOHNSON #209 SOCKET, ceramic for medium 4-pin bayonet base (811, 3B28 etc); 1 lb. USED $7.50
JOHNSON #247 SOCKET, ceramic wafer for septar tubes like 832, 829, 4-65, etc. USED, $5.50
#122-101-200, septar socket w/ventilated shield, $7

TUBE SHIELDS

for most 7-/9- pin mini tubes (specify #) used $.40
#TS1030U2 SHIELD 12AX7-size, $.60
#TS1030U3 for 12BH7-size, UNUSED, $1.00
BLACK IERC-Type SHIELDS, used:
#TR5015 (6AK5) or #TR5020 (6BA6-size), $.85 ea
#TR6015 (5842) $.95

Pin Straightener

GENERAL ELECTRIC TUBE PIN STRAIGHTENER for 7- and 9-pin miniature tubes; red-blue plastic, 2.9x1.3x1.1. GE#55-128, NEW, $3.50

ELECTRON TUBES

UNUSED in original military or commercial boxes:
1U5 GE, RCA $4.50 2E26 RCA $6.00
2K25 Raytheon, $40. 3B28 various, $14.00
3TF7/RT510 $17.50 3V4 ECG, $5.00
4CX300A/8167, ~~$65~~ $45 4CX5000J Eimac, $650.
4D32 Raytheon, $35. 5X4G or 5Z3 $6.00
6AF6 "eye" $9.00 6AJ5 Tungsol, $3.50
6AZ8 ECG ~~$8.50~~ $6.50 6BL7GTA GE $4.00
6B4GA Sylvania (does not test like 6B4G), $17.50
6BN8 ECG $4.50 6CA7/EL34 Sovtek, $9.
6CB6A RCA, $3.00 6DC6 various, $6.50
6DK6 GE, $3.00 6DQ5 various, $7.50
6EB8 GE, $4.50 6EJ7 England $3.00
6L6GC Sovtek, $4.25 6SC7 GE $4.00
6SG7 RCA $3.00 6SK7GT various, $4.00
6U8 Sylvania $4.00 12BE6 GE, $3.25
33, 34, 35, 36, 38, 39/44, 43, 49, $4.50
56, 57, 58, 78, 79, 84, 85, 89, $4.50
717A, 884 or 885, $5.50 832A or 1624 $8.00
826 $24.00 954-955-956 acorn $3.50
1616, 1619 or 1625, $5.50 1629 "eye" tube, $11.
5675/4042, ~~$24~~. $19. 5751 GE, $4.25
5763 various, $7.50 5814A ECG, $3.25
5852 Bendix (=6X5GT) $4. 5876/4043, ~~$24~~. $19.
5998A Syl, $9.95 6000 MU, ~~$40~~. $25.
6012 RCA, $25.00 6082 various, $10.00
6146W GE, $19.95; 10 for $175.00
6336B Cetron, $40.00 10 for $350.00
6922 ECG (=6DJ8) $3.50 ea; 10/$28. 100/$200
7308 "Amperex " but look Russian, $3.50; 10/$30
7360 ECG, $15.00 8552 ECG, $12.00
7581A (= 6L6GC) ECG $18.50; 10 for $165.00
NUVISTORS: 7586, $10. 7587, $15. 8056, $5.
8058 nuvistor, $18. 8295A Eimac, $350.

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Most "RECEIVING" TUBES available USED-CHECKED, $2.50 ea; UNUSED, $4.50 each. See list for some exceptions. CALL or WRITE for quotes!

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USED-checked (US-mfg): 2E22, $10. 3B28, ~~$9~~ $6
3E29/829B, $10. 4CX350FJ/8904, lab-tested, $35.
4X150D (26 V), $16. 6L6WGB or 6L6GA (US), $6 ea
6SL7WGT or 6V6GTY Sylvania brown base, $3 ea
26A6, 26A7, 26D6, $3.00 ea. (26C6 NEW, $5.)
12AX7, $3.25 24A or 27, $3.50 26 or 42, $5.50
80, 83 or 807, $6.50 6AS7G or 6080W, $4.00
ANTIQUE GLOBE TUBES, used-checked, $7.50
each: 224/324 227/327; UX-201A/301A, $12.50

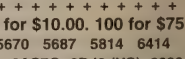
Pull-Out Sale

POPULAR TUBES

"pulled-out" of equipment-- NOT TESTED/ NOT GUARANTEED! But prices CHEAP when purchased in quantities indicated. (Prices for one tube type per quantity!): 10 for $8.00; 100 for $50.00
0D3 1S5 1U4 3A5 3D6 3Q4 3Q5 6AC7
6AG5 6AK5 6AL5 6AS6 6AU6 6AV6 6AU4 6BA6
6BN6 6H6GT/M 6J4 6J6 6K7G 6SH7 6SJ7
6W4GT 6X5 12A6 12AT7 5963 5965

+ +

OTHER "PULL-OUTS" 10 for $10.00. 100 for $75
6U8 6Y6G/GT 12AU7 5670 5687 5814 6414
10 for $21. 100 f/ $165: 6AS7G 6DJ8 (US) 6080



RCA 4012/A1157 TRAVELING WAVE TUBE, 2.0-4.0 GHz, 36 db min., 20 mw min. 15.5"LX3.5"Hx1.5"W. 4 lbs sh. UNUSED, $40.

TUBE SOCKETS

OCTAL-USED: bakelite ring or 2-hole mt, $.45 ea.
Ceramic 2-hole, $.95; Fiber Wafer, unused, $.30
4-PIN CERAMIC WAFER SOCKET, used, $3.00
6-PIN FIBER WAFER SOCKET, unused, $.75
MINI 7- pin mini, moulded or bakelite, NEW, $.35
MINI 7-pin mini with collar for shield NEW, $.60
MINI 7-pin CERAMIC with collar f/shield, NEW $.80
SUB-MINI, round short-lead, unused, $.75
SUB-MINI, round, long-lead, unused, $.85
U-102 OCTAL TEST SOCKET, test points for octal tube; plugs into socket,. #4578, NEW, $2.00

Tubes & Audio

75 YEARS OF WESTERN ELECTRIC TUBE MANUFACTURING by Bernard Magers; historical look at 750+ WE tubes + pics; 133 pgs. $16.95

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#MIL-HDBK-213A, ELECTRON TUBES, CROSS INDEX and TYPE IDENTIFICATION, Nov '63; comprehensive list of tubes used by the U.S. military; 303 pages, 3 lbs. $27.50

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PRINCIPLES OF ELECTRON TUBES by H. Reich; reprint of 1941 text book on tube RF & AF, 397 pp., ~~$34.95~~ $27.95

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VALVES FOR AUDIO FREQUENCY AMPLIFIERS by E. Rodenhuis; info & curves for European tubes, 144 pp. $16.

BEGINNER'S GUIDE TO TUBE AUDIO DESIGN, by B. Rozenblit; basic tube amp component theory and practical design + classic circuits. 131 pp. $22.95

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Mullard TUBE CIRCUITS FOR AUDIO AMPLIFIERS Reprint of audio amp circuits by tube mfg; 136 pp. $15.95

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AN APPROACH TO AUDIO FREQUENCY AMPLIFIER DESIGN, (1957) by GE (UK); 17 circuits, 126 pp., $14.95

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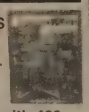
AUDIO ANTHOLOGY by C.G. McProud; reprints of articles about tube audio circuits:
VOL #1, 1947-49, 125p $16.95
VOL #2, 1950-52, 125p $16.95
VOL #3, 1952-54, 96 p, $16.95
VOL #4, 1955-57, 144p $16.95

Old Radios



THE COLLECTOR'S GUIDE TO ANTIQUE RADIOS by M. & S. Bunis; the best guide on 5000 radios (1920-1959) with 400 quality color pictures! 4th Edition; 8x11.5, 175 pp. $18.95

ANTIQUE RADIOS, Restorations and Price Guide by D. Johnson; old radio theory, repair, cabinet clean-up, price guide. 8.5x11, 160 pp. $14.95

GUIDE TO OLD RADIOS by D & B Johnson; pointers, pictures, prices and some history. 2nd Ed; 277 pp. $19.95

A FLICK OF THE SWITCH 1930-1950 by McMahon, $12.

MOST-OFTEN-NEEDED 1926-1938 RADIO DIAGRAMS, reprint of Beitman's. $14.95

COMMUNICATIONS RECEIVERS, 3rd Edition by R. Moore; pictures of receivers from 1932 to 1981. 125 pp; $19.95

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TRANSMITTERS-EXCITERS & POWER AMPLIFIERS 1930-1980 by Ray Moore; companion to Communication Receivers book! 470 pics; 147 pp. 8.5x11, $21.95

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SHORTWAVE RECEIVERS PAST & PRESENT, 1945-1997, 3 rd Ed. by F. Osterman, pics & specs of European, Japanese and U.S. commercial Rx. Includes original and estimated used" prices; 471 pages, 3 lbs. $24.95

POWER-UP! by Dave Strom, how-to-make battery packs from common batteries for military radios BC-611, PRC-6, PRC-8-9-10, PRC-25-77, PRR-9/ PRT-4; also radiacs, PVS-7, seismic, + some hook-up. 95 pp. $13.95

#TM11-487A DIRECTORY of OLD SIGNAL CORPS...RADIO EQUIPMENT, 8/ 1950. 4 page missing, 246 pp; $22.95

#TM11-310 SCHEMATIC DIAGRAMS of SIGNAL CORP GROUND RADIO EQUIMENT 1943-47; 32 selected vehicle & field radios; 228 pp. $24.95

#T.O. 08-1-25, VACUUM TUBE COMPLEMENTS of SIGNAL 10/44; tube line-ups of many vintage military & commercial radios. Also lists by tube # the radios in which tube is used. 192 pp, 3lbs. $19.95

ARRL Books

ANTENNA BOOK, 17th Ed $30.
ANTENNA COMPENDIUM f/
QST, Volume I, $10. Vol II, $14
Vol III, $14. Vol IV & V, $20 ea
ANTENNA IMPEDANCE MATCHING, $20.00
ARRL ELECTRONICS DATA BOOK, $15.00
1997 HANDBOOK, ~~$38~~ $24.
HINTS-KINKS, 13th Ed., $10.
OPERATING MANUAL, 4 th Edition, $18.00
SATELLITE EXPERIMENTERS HANDBOOK, $20
SOLID-STATE DESIGN, $15.
200 METERS-DOWN, $8.
UHF / MICROWAVE EXPERIMENTER, $20.00
UHF/MICROWAVE PROJECTS MANUAL, Vol 1, $20.
WFIB's NOTEBOOKS:
ANTENNA, $10.00
DESIGN, $10.00; QRP, $10.

MINIMUM ORDER is $10.00 ($25.00 outside U.S.) + shipping charges. Minimum charge on approved U.S. open-accounts is $20.00 + shipping $. COD orders permitted at our discretion, if customer provides 50% of total cash deposit. UPS COD fee $5. 10 DAY RETURN POLICY: Customer may return items for refund of purchase price of the item within 10 days of receipt of order. Authorization for return required! DAMAGED MERCHANDISE: Claims must be made within 10 days of receipt. Fair Radio reserves the right to repair, replace or refund at its discretion such merchandise. Unauthorized returns & claims beyond the 10 day period are subject to 15% or $5.00 (whichever is greater) restocking charge. Returns and claims will not be accepted after 30 days of receipt of order!

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ARB Control

CRV-23256 REMOTE OPERATOR'S CONTROL for WW-2 Navy ARB radio. Six band Homing-Commun for 195 KC to 9.05 MC-MVC-AVC, switch Off-CW-MCW-Sharp-Broad, Local-Remote, Increase Output & 2 phone jacks. 4.3x6x2.3, 4 lbs. UNUSED, $18.

BC-1366 JACK BOX, selector switch for "Comp-VHF Laison -Command-Inter-call". Increase Output pot, 2-phone jacks. VHF equal of BC-366; 3.3x4.8x3, 2 lbs sh. UNUSED, $15.00

Interphone Amp

CMX-50128A INTERPHONE AMPLIFIER for intercomm use between crew & operator of WW-2 TCS radio sets. Has mic input & audio output transformers, 4 ohm choke, three 12A6 tubes. Requires 14 VDC dynamotor, 23555 remote controls, 4 mating connectors (none available). 10.5x 6.8x7.5, 19 lbs sh. UNUSED w/cover & book, $19.95

INSULATOR PANEL for ART-13 Tx; has Ground 2-terminal white insulator, Receiver & Load Coil insulated term-posts on 5.5x 5.3 black panel; 2 lbs. USED $10

OFFSET INDICATORS with 20-turn 20K ohm 0.1% linear pot coupled to geared vernier control; inner dial marked 10-0-10 NAUT MILES (1 turn= 1 mile). Offset shaft size 1/2" x1/4" dia; o/a 3.5x3.5x4.5, 2 lbs. Specify: #E-W (East-West) or #N-S (North-South) OFFSET, used, $4.95 each

LS-445 4"SPEAKER, ruggedized 8 ohm 2 W perma- magnet type; 300-7000 Hz response. P/o LS-166; 3 lbs. USED $7.95

MAGNETIC RING

3.5" dia x 5/16" thick MAGNET with 1.9" dia open inner circle lifts about 8 lbs. 5" dia metal casing has mount flange to protect and isolate magnet; two wires attach to spring-loaded contacts. Use as magnetic antenna mount or in robotic, audio or science projects; 2 lbs. #MAG-S91, $2.95; 4/$10.00

High Voltage Supplies

HIGH VOLTAGE POWER SUPPLY, input 120 VAC 50-60 Hz. Rated outputs: -5000 V (6+ KV tested) 1.8 ma, +120 V 15 ma, +24 V 0-1.25 amps, +16 V 200-450 ma. 4x9.5x4, 17 lbs sh. #GE9T63Y2280G02, used, $12.95

STATIC NEUTRALIZER SUPPLY, 5 KV output from 120 VAC 50-60 Hz 20 VA in. 4.3x 3.1x2.6, 4 lbs sh. #S-H-95078, NEW, $12.

618T Modules

MODULES FROM COLLINS 618T HF TRANSCEIVER, as removed from equipment--not tested:

AM AUDIO AMP #546-6053, has mech filter F500 Y60 (526 9378); 2 lbs sh. $40.00

IF TRANSLATOR #544-9286, has LSB-USB filters F500 Z4 (526 9377) & Z5 (526 9376), $65.00

KC- FREQUENCY STABILIZER, has mechanical filter F250 F100 (526 9410) and crystal filter X250KF440 (526 7006); 3 lbs sh. $35.00

RF TRANSLATOR with K9 oscillator, 15 lbs., $200.

+ +

GRC-106 MODULES for RT-662 and RT-834, most modules available except 1A3 Freq-Standard removed from "used" radios. Specify module # and RT #; 2 lbs sh each. Price: UNTESTED, $20 ea Add $20 per module for "CHECKED" modules.

ARC-58 Modules

MODULES from AN/ARC-58 or TRC-75 radio sets. Each 4.8x4.5 x1.5, 2 lbs sh. USED-not tested:

AM-1523 AMPLIFIER DETECTOR, 4x 5899 tubes; p/o R-761, $17.50

AM-1525 or AM-1733 ELECTRONIC CONTROL AMPLIFIER p/o T605/T-730 xmitter, $15.00 ea

AM-1526, similar to AM-1523, $17.50 ea

AM-1528 AMPLIFIER-MIXER for R-761 with ten tubes and slug rack, $45.00; Schematic, $3.

AM-1529 AMPLIFIER OSCILLATOR with Collins mechanical filter P455 Z1, $28.00

CV-465 MIXER OSCILLATOR, for R-761; oscillators master 70H13A, interpolation, spectrum generator Mech filters F455 Q2 & Q3. $55. Schematics, $10.

MD-286 BALANCED MODULATOR with mechanical filters F300 Z4 and F300 Z5, etc. $30.00

SG-179/URC REFERENCE GENERATOR, $20.00

PRC-47 Modules

MODULES from RT-671/PRC-47 transceiver. USED-not tested:

AM-3506 AUDIO AMP has mic, sidetone, vox and compressor circuits of TX; AGC & audio for Rx. Requires 20 & 24 VDC. 4.3x4.3x2.8, 2 lbs. $15.

AM-3507 AMPLIFIER MODULATOR contains LSB 500 KHz mech filter F500-Z5 (#526-9376) plus balanced modulator and product detector. Requires 20 VDC; 4.3x4.5x1.3, 1 lb. $35. Connector set $6.

C-4311 CONTROL OSCILLATOR, 3 lbs. $25.00

CV-1377 SIGNAL DATA TRANSLATOR with tubes 5907, 7761, 7905; 5 lbs sh. $50.00

O-1032 RF OSCILLATOR contains 3 MHz crystal in oven; produces 500 and 100 KHz outputs. Requires 20 VDC; 4.3x4.5x1.3, 1 lb sh. $20.00

PP-3518 POWER SUPPLY, 16 lbs sh., $25.00

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PUSH-TO-TEST

KORRY 260 PUSH-TO-TEST INDICATORS, double lampholder with miniature bayonet base; 1.5"Lx0.8"H. All UNUSED. Clear & amber lenses with "rocket launch"-related inscriptions:
400 CPS DRIFT TIMER,
11°C HEATERS THERMOSTAT,
HYDRALIC ACTUATOR TEST POWER, HEATERS 1-2-3,
COOLANT VENT VALVE, 1220 PSI SPHERES PRESSURE SW,
STBY HTR COMMAND,
SET PRESSURE SWITCH,
CENTER, 280 VA.
Price: $.75 each, 4 for $2.
Inscribed "28 VDC", $1. ea

LAMP HOLDERS for 327 laps; fit 1/2" hole. Flat WHITE numbered lenses; specify: " ,4,5,6,7,9" or YELLOW "MAX".
#0934, $.55 each
#FLW-327 pilot light w/ 327 lamp; white lens. Used $1.35

MINI-DIMMER LIGHT for 327-size bulb; fits 3/8" dia hole, o/a 1.4"Lx0.6" dia. New
#0673, green jewel, $1.00

TINY 28 V NEON INDICATOR, 1-3/8" long x 3/8" dia; NEW
#3495 clear lens w/ "B" 3/$1.
#3496 clear lens w/ "7" 3/$1.

GRIMES PILOT LIGHT as used in aircraft control panels. Takes #327 or similar lamp.

Pilot Lights

Used. $ .65 ea

SUB-MINIATURE NEON PILOT LIGHT with 5/16" dia clear jewel. Base is receptacle for three 1/16" pins in triangle pattern. Mounts in 3/8" dia hole. O/a 1.4" L; includes neon bulb. #PIL007, $.35 ea: 4/$1.00

PILOT LIGHT for single contact mini-bayonet bulb. Flat clear lens 1/2" dia. O/a 2.3" long for 3/4" dia hole.
#PIL-FCLR, $.60 ea

DIALCO PILOT LIGHT for single contact mini-bayonet bulb; 1/2" dia raised green jewel. O/a 2.3"L; fits 1/2" dia hole.
#8901, unused, $1.35

DIMMER LIGHT w/ NE-51 bulb; 1/2" dia clear jewel. Fits 5/8" dia hole; o/a 3" L.
#PIL-C433, used. $.75 ea

LARGE PILOT LIGHT for double contact bayonet bulb 1i dia smooth green jewel. O/a 2.8" L; fits 1" dia hole
#8673, unused, $1.35

PRESS-TO-TEST INDICATOR w/ dimmer; mini bayonet base. 0.75" dia flat amber jewel; 0/a 2.3" L, fits 0.6" dia hole. #AN-3157-2, used, $2.

60 UH Inductor

VARIABLE RIBBON INDUCTOR, p/o T-195 2-20 Mhz 100 W xmitter. Two 4.6"L x2.8" dia drums (one slug core) with 3/16" W silvered-ribbon; 30 turn 4" L coil for 160 uH. 26 VDC motor rotates drums transfering ribbon from one drum to the other. O/a 8.3x5.6x6.3; 10 lbs sh.
#L1101/T-195, USED, $22.50

FERRITE CORE INDUCTORS, PC mount; 7/8x 3/4" dia.
#NV243, 123-177 mH, $1.50
#404-3-2, 600 mH, $1.50

TELEPHONE PICK UP COIL p/o modem coupler; no in-fo. 5/8x1.8" dia. #402-4, $l.00

ROLLER INDUCTOR, 5 uH 19-turns 3/16" dia silvered wire; 2.6"Lx1.6" dia coil w/ 1/2" notch coupling; o/a 2.5x5x2.5, 2 lbs sh.
#L4-618T, used, ~~$12~~. $10.

RF MASTER OSC COILS
#T53/6032, p/o T-22/ARC-5 7-9 MHz xmitter; $4.00
#L101/ART13, ceramic 2"H x 1.6" dia base. $4.00

#L6/RF111 COIL,30 uH; 13 turns #8 silver-plated wire in 6" dia coil. Form notched for 4 more turns; fiberglass ends. O/a 8x7.5x6.5, 4 lbs sh wt. USED, ~~$12.95~~ $9.95

#L5/RF111 COIL, 15 uH; 12 turns #8 wire in 3.75" dia coil 7.3x6.5x4.5, 4 lbs sh wt. USED, ~~$11.00~~ $8.95

TUNER KNOBS

#TK-LF-HF TUNER KNOB, aluminum 2" dia w/ 5/8"L crank; fits 1/4" dia shaft. Label reads "Lock Tuning LF-HF"; p/o SCR-506. UNUSED, $4.00

ARMY SPIN KNOB, retractrable crank w/ beveled top-screw shaft. 1.5" dia; for RT-70 or GRC-106. #2313, $5.00

#SP-348 SPIN KNOB with crank; fluted 2.1" dia, aluminum. P/o BC-348 Rx. $6.00

LARGE FLUTED KNOB for 1/4" dia shaft O/a 2-3/8" dia. USED:
#KNB-238-25, $1.50
#KNB-LCP, for 3/8" shaft, $1.25 each; 2 for $2.00

2-3/8" dia FLUTED KNOB with 3" dia SKIRT for 1/4" dia shaft. #KNB-5IJ3, NEW $5.00

1.3" dia FLUTED KNOB w/ l.8" dia skirt; brass insert f/ 3/8" dia shaft. #KN04, $.70
#KN03, as above except 1.6" dia w/ 2" dia skirt, $.90

DUAL CONTROL KNOB as used on H-P & TEK scopes; 1-3/8" dia skirted black base for 1/4" dia shaft with 3/4" dia red top knob for 1/8" dia shaft.
#KN-DC-HP, used, $1.00

POINTED KNOB for 1/4" dia shaft; 1.8"Lx 1"Hx0.8"W.
#KNBN-026-90, 3 for $1.00

Rounded BAR KNOB, 1-1/8"L x 3/4"Wx 3/4"H. Brass insert f/ 1/4" dia shaft. #KNART13, 2/$1.

Old HAMMARLUND-style, TUNING knob; rounded edge w/ 4 sets of 4 hash ridges. 2.3" dia. #KNB-HMRL-23, $4.00

HALLICRAFTERS KNOB with big "h", 1 1/2" dia; arrow & grip bar. #H81014, unused, $1.50

DARK BROWN fluted plastic 1" dia X 0.5"H f/ 1930's & 40's radios. #KN-DB1, 3/$1

ALCO KNOBS, modern plastic knobs with brushed aluminum inset fit 1/4" dia shaft.
#AL-KN8P, 3/4" dia x 1/2" H; pointer for slot shaft $.45
#ALKN6, 5/8" dia x 3/8" H for 3/16" dia shaft, 4 for $1.00

KALRAD KNOB SET, five 1/2" dia plastic knobs with 5/8" dia skirt, chrome insert, & set screw; #KAL5K, NEW $1.25

EQUIPMENT HANDLES, 4.9"L x 1.8"H x0.6"W black aluminum handles tapped for #8-32 screws; 1 lb sh.
#BLK-HAND-95, NEW $4/ pr

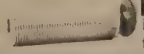
METAL EQUIPMENT HANDLES for mounting to panel fronts. 5/16" stock. 1.5"H x 4.25"W o.c.; with screws.
#PNL-HAND, used, $2.00/pair
#PNL-HAND-625, as above but 6.25"W, NEW, $2.75/pair

COLLECTOR BULBS

1 2

Unusual craft and projection lamp blub: nice glass and ìsimple but elegant filaments like old radio tubes. With mogul base; may or may not be work:
WESTINGHOUSE AVIATION 500 W 230 V (pic 1), 9.8"H x 4.8" d; #W5C-230 $9.
NALCO 375W BULB (pic 1), low amber-pink filament light from 115 VAC but lots of heat! 7.5"Hx 3.5" dia. $5.00
EDISWAN PROJECTION (2) 6-8 A 200 W; 5.3X1.4" dia. $3.
T-8 PROJECTION BULB (like pic 2), 200 W 3.4"H x 1" dia; GE #PH/200T8SC, $2.00

ROLLER INDUCTOR KITS



includes 4.4"L x 1.5" dia ceramic coil with 40 turns #14 silvered-wire, roller wheel, guide shaft & springs. 3/8" dia shafts have removeable pinned gear. End support plates not supplied; 3#. #L22-PRC-47, 22 uH, $16.
#L35-PRC47, 35 uH with part slug core, $15.50
L40-PRC47, 40 uH with full slug core, $15.00

MINIATURE LAMPS

STK#	VOLTS	AMPS	BASE	BULB	EA	10 pk
313	28	0.17	min bay	T 3-1/4	.45	$3.50
1845	28	0.22	min bay	T3-1/4	.35	$2.50
1815	14	0.20	min bay	T3-1/4	.45	$3.50
67	13.5	0.6	S C bay	G-6	.35	$2.50
511	2	0.25	min screw	G-6	.20	$1.00
331	1.35	0.06	min flange	T1-1/4	.75	$6.50
1021	4.5	1.25	RP11	SC pref	1.00	$7.50
NE-47	105-115 VAC	0.22	cand bay	T4-1/2	1.50	$12.50
NE-51	115	0.2	min bay	T3-1/4	.75	$6.50
24-68M	24	0.68	DC bay	B-6	.35	$2.50

Roller Inductors

PLATE ROLLER INDUCTOR 26 turns #16 silver plated wire 3.7"L x 2" dia coil; 14.5 uH max. 115 VAC 400 HZ motor and 20K ohm multi-turn pot; will run on 26 V 60 Hz. Can be adapted to direct-drive. O/a 6.8x4x5, 3 lbs. #L13/ARC-58, used, $27.95

L5 ROLLER INDUCTOR, 26 turns #18 silvered wire 2"Lx1.1" dia coil: 8.4 uH max. 115 V 400 Hz motor drive like above; runs on 26 V 60 Hz. Adaptable to direct-drive. O/a 6x3x4.75, 3 lbs. #L5/ARC-58, $12.

CERAMIC COILS

PI NETWORK COIL from 400 W transmitter, dual-wound with 38 turns #10 wire in 6.5"Lx3.3" dia coil and 5 turns 1/4" dia silver-plated tubing in 2.5"Lx3.5"dia coil (70 uH total) with 4-taps. O/a 10.8"L; 5 lbs sh. #L2/T368, used, $25.00
#L2-S2/T368, above coil with 2-deck 5-position 5x4.5x7 ceramic tap switch (shorting contact on deck #1), used, $40.00
#S2/T368 TAP SWITCH only, used, $22.00

RIBBON INDUCTOR

with motor drive; two 5.4"L x 3.4" dia coils with 288" of drawn silver ribbon (0.125"Wx0.01" Th) wound between; approx 28 uH. Ribbon transferred from coil to coil by 28 VDC motor. P/o Collins 180L3 antenna tuner. O/a 9.3x 5.8x5.8, 10 lbs. #L40l/l80L, used, $24.95

ROLLER INDUCTOR rated 0.1 to 10 uH @ 3 amps; #16 silver-tinned wire forms 2" dia coil. Steatite ends; shaft 3/8"L x 1/4" dia. O/a 4.4"Lx3"Hx2."W. 3 lbs sh.
#229-101 (or =), used, $32.00

Line Filters

DELTA EMI 3 AMP FILTER with 3-prong plug; 115/230 V 60 Hz. 2" W mount x 2" D; fits 1" x 0.8" hole. #03GEEG3H. $1.75

TOKIN #VG-215F, 250 VAC 15 amps 50/50 Hz with spade terminals; 2.6"Lx1.8" dia, 1 lb sh. NEW, $3.00

2 x20 AMP FILTER, 115 to 250 VAC 48-440 Hz; 3.4x1.5x3.2, 1 lb. #F-85066, NEW $3.50; 10/$25; 100/$195

D C FILTER, 55 amps 30 VDC; two stud terminal, 2.8x5 x2, 2 lbs. #537-6615, unused, $4.95

FILTRON #FA-380 RFI DC FILTER, 3 X 10 amps 28 VDC; 1.6x3x4.5, 2 lbs. Unused $4.50

Mica Capacitors

G-SERIES TRANSMITTING CAPACITORS, used-good or unused as available.

G-1-type, 2.3"H x 2.8" dia; 3 lbs. $7.50 each

KV	MFD	KV	MFD
1.0	0.04	6.0	0.0002
1.5	0.08	6.0	0.00024

G2, 3.5"HX3" di, ~~$18.50~~ $12

KV	MFD	KV	MFD
2.0	0.03	10.0	0.0002
		20.0	0.00005

G3, 4"H x5" dia, ~~$37.50~~ $18

KV	MFD	KV	MFD
2.5	0.15	10.0	0.00015
4.0	0.084		

G4, 5.5"Hx 5" dia. 8 lbs. $32.

0.004 MF 20 KV, 2.4" dia X 0.6"H. #N4700, NEW, $17.

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"DOORKNOB" capacitors, TYPE 858, 1000 pf 5 KV, $8. 857: 15 KV 40 or 50 pf, $8.

Xmitter Coils

#C-447B coil for BC-610 xmitter with variometer; 4.5"L x 4.5" dia; 3 lbs sh. UNUSED, $12. Coils without variometers: #C-447, earlier 3.4" dia, $8. #C-389A, 4.5-5.7 MC 3.4", $8.

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L8 COIL for T-4/FRC 400 W xmitter covering 2-3.5 MC (44 uH) without variometer; 4.5 " dia X 6.5"L plus 9 banana jacks on ceramic strip; 3 lbs sh. #199-6262, UNUSED, $10.

Vacuum Relay

KILOVAC DPDT VACUUM RELAY, similar to Jennings RB3, 6 VDC 6 ohm coil; 12 KV pk, 30 A AC/DC. Max-operate 20 ms. Threaded base 1.1" dia; o/a 2.6" H x 1.8" dia. #H-14/S1, NEW, $55.

#T8GE SPDT VAC-RELAY = Jennings RB1D; 26 VDC 265 ohms 12 KV pk 15 A AC/DC . 2.8"Hx1.4" dia flange. $59.

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JENNINGS RB-1H SPDT 26 VDC 270 ohm coil; 12 KV pk AC/DC 15 amps cont. W/ mount flange; 2.3"Hx1.5" dia, 1 lb sh. USED, $49.50 TORR #T-8/S4 (=RB-1H), $45.

#RJ1A-26 SPDT 335 ohm; 3.5 KV pk 18 A AC/DC. Max-open/release: 8 ms. 1.3"H x0.8" dia, USED, $35.00 KILOVAC HC-1 (=RJ1A), $28.

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SPDT VACUUM RELAY ASSEM -BLY antenna transfer relay p/o Collins 180L3 antenna tuner; coil 28 VDC 38 ohms. O/a 5x6 x2..3, 3#. #K712/180L3, used, $20

2-GANG 14-78 pf & 17-100 pf 0.09" gap; Shaft 3/4" L x 1/4" dia; O/a 5.3x1.5x3.3. 2 lbs sh. #C-221/T195, used, $8.95

TUNING CAPACITOR f/RT-176/PRC-10, 38 TO 54.9 Mhz; 5-gang, 5-33 pf/ gang. With 1 1/4" and 5/8" dia. gears; 3/16" dia shaft. 1.5x1.6x4, UNUSED, $6.95

AO-105 OSCILLATOR, has precision 21-220 pf air capacitor w/ right angle drive, 4-55 pf trimmer, 100 KHz xtal & oven, feed-thru caps three 1000 pf & and 2000 pf. Tubes 6AB4, 6AH6, 12AU7. P/o TMC xmitter master oscillator; pictured without cover. O/a 8x8.6x11, 19#. USED, $17.

TUNING CAPACITOR ASSY for RT-66-67-68 xmitters; 6 sections: four 8-64 pf two 8-55 pf. Also six 4-23 pf trimmers. Dual geared 3/8" dia shafts; o/a 4.8x4.8x3, 3 lbs. #3D9067E6, unused, $15.

ARC-5 PARTS

SCR-274/ARC-5 COMMAND SET replacement parts:
#7274 3-6 MC 1st IF, $5.00
#7277 6-9.1 MC 1st IF, $5.00
#7279 " " 3rd IF, $5.
#5856 " " oscillator $5.
#6234 " " RF sect. $9.
#7249 5.3-7 MC BC-458/T-21 xmitter PA coil, used $6.00
#6032 6-9.1 MC BC-459/T-22 xmitter oscillator coil $4.00

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DUST & TUBE COVERS for BC-456/MD-7 modulators, used-excellent. Specify:
#7142/7144-A, aluminum $15.
#7142/7144-B, black, $18.

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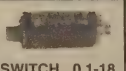
ART-13 CRYSTAL CALIBRATOR, provides 50 KHz fundamental using 200 KHz crystal. Also 1000 Hz tone for MCW. Tubes 2/12SL7, 12SA7; 6x5x3, 4 lbs #XCAL-ART-13, used, $20. ART-13 SPEECH AMP, $22.

H-P Microwave



HEWLETT-PACKARD 33103A SPST MICROWAVE SWITCH , 0.1-18 GHz; two SMA female & one Micro-dot (f) bias connector. 0.4x2.1x1. USED, $24.95

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ELCOM AT-53-10 ATTENUATOR, 10 DB w/ SMA conn; Ag-plated, 1.5x0.5" dia. $10.

SINGLE GANG 8-26 pf 0.06" air gap; 2.8" disc removes for 0.5"L x 1/4" dia shaft. W /four 1.8"H insulators. Capacitor 1.5x2.8x3.1 o/a #T7660443-8, USED, $6.

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3-GANG 10-60 pf/gang: 0.03" gap; shaft 1/4" dia. O/a 1.5x4.3x1.5. ASP #4083. $4.

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3 GANG 10-148 pf per gang with right angle gear tuning; p/o GRC-109 receiver. Shaft 0.4" x 1/4" dia; 0/a 2.3x5.3x2, 2 lbs sh. #C1012/R1004 , used, $10.00

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#4G535, 4-gang 20-535 pf per gang 500 V; shaft 0.3"L x0.3" dia. O/a 1.9x6.8x3.3, 3 lbs. USED, $15.

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SINGLE 12 - 475 pf 0.02" air gap; vertical mount. Shaft 0.4"Lx 1/4" dia. o/a 3.8x2.4x2.5, Used: #C123/URM25, $9.

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MINI-VARIABLE, 10-220 pf w/ 0.5"L x 3/16" dia shaft; o/a 1x1.3x1.1. #1800-07, $3.50

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3-GANG 25-600 pf/gang; gap 0.02". Shft 1/4"Lx1/4" dia; o/a 1.9x5.8x3.3. #3G-600, $14.00

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BC-624 RECEIVER RF TUNER for 100-156 MHz AM; with variable capacitors, coils, etc. P/o SCR-522 5x5x5, 7 lbs sh. #2ZK11150, used, $6.00

UHF TUNER

450-900 MHz VARACTER TUNER, use for TV or modify for scanners. Approx 47 MHz IF out; 300 ohm ANT input, 50 ohm OSC out. Requires +15V (B+), 3-10 V (AGC), 0-30 V (tune). 3.5x3.5x1, 1 lb sh. GE#EP8566X, unused, $5.95

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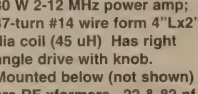

ROLLER INDUCTOR ASSEMBLY f/ 30 W 2-12 MHz power amp; 47-turn #14 wire form 4"Lx2" dia coil (45 uH) Has right angle drive with knob. Mounted below (not shown) are RF xformers. 22 & 82 pf 7500 V mica capacitors. w/ SCHEMATIC. 6.5X9.5X6, 9#. #I301AM-66, used, ~~$30~~. $32.

RECIEVER-TYPE VARIABLE CAPACITORS, multi-section with 500 V or less spacing

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#SC-577, 3-GANG 40-450 pf/ gang; shaft 0.3"L x 1/4" dia. o/a 1.4x2.8x1.4. USED $9.50

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#NR-2045, 2-gang 10--45 pf/ section; 1"Lx3/8" dia shaft has 3.1i dia dial cord wheel. 1.5x3.4x1.8. UNUSED, $3.75

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3-GANG, 20-540 PF per gang; 500 V-peak. Shaft 3/4"L 1/4" dia; o/a 4x1.5x2, 1 lb sh. #ASP-074-048, NEW. $9.95

#3D9402V, 5-gang 13-402 pf per gang 500 V; shaft 1.3"L x0.4" dia. O/a 2.8x7.3x3.8; 3 lbs sh. UNUSED, $16.95

Trimmer Caps

TRIMMER CAPACITORS with screw-drive adjust shafts:

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#C653/R174, 2-11 pf, $.50
#C103/382, 4-23 pf, $.75
#SBL72265-2, 8-32 pf, $.75
#CT1C075, 6-75 pf, $1.25
#C104/382, 9-100 pf, $1.50

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#366-840, 7-25 pf 0.1" minimum gap, screwdriver adust; 1.9x1x1.6. $1.95

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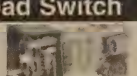
MINI-TRIMMER, 9-25 pf; 1/4" x 3/16" dia shaft. O/a 0.8x1.5x0.6. #KS14008, $1.25

PA Load Switch



PA BAND LOAD SWITCH, good source of RF parts with 7 CRL 850-Series 7.5 KV caps; 3 x20, 40,2/50, & 100 pf plug 7 gold-plated bypass caps 2/500 & 5/150 pf. Also 2/CRL JV9000 18-pos. ceramic switch deck; switch rotor has 9 connected contacts. 2.9x5.5x2.5, 2 lbs. #S101/PRC-47, used $20.00

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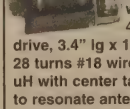

ROLLER INDUCTOR ASSEMBLY with 115 VAC 400 Hz motor drive, 3.4" lg x 1.75 dia coil; 28 turns #18 wire approx 14 uH with center tap. Designed to resonate antenna to a transceiver's frequency. 4.5x2.8x3.8, 5 lbs; used. #T301/CU-99I, ~~$14.95~~ $12.

Antenna Load

Assembly from AM3349/ GRC-106, includes L1 0.5 to 40 uH variable inductor, L2 37 uH fixed inductor, C27 15-355 pf air capacitor, 26/ 1000 pf feed -thru caps, S1 2-deck 5-position ceramic switch and two Globe or = 24 VDC motors. LESS C26 vacuum cap. Cutting of plastic supports required for parts recovery. (See April 98 73 Magazine for project.) 5.5x 9.5x5.5, 10 lbs. #AL-AM3349-96, USED $29.50

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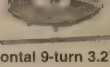

"PANCAKE" ROLLER INDUCTOR 7 UH horizontal 9-turn 3.2" to 9" spiral with silver edged 1/2" copper ribbon tracked by roller on rotary arm. Spiral on 10.5"x 11.5"x 0.6" fiberglass deck; part of 10 KW network. 9 lbs sh #P-IND-75, used, $37.50

VARIOMETER p/o ART-13 xmitter, 6-turn #12 tinned wire; 3" dia stator, 2.5" dia 7-turn rotor (2-11 uh). Fiberboard end plates; spline drive. O/a 5"Hx4.5"L x2.5"W. 3 lbs sh. #L112/ART13, USED, $14.95

DISCRIMINATOR

PHASE & LOAD DISCRIMINATOR, determines if load is <, >, or = to 52 ohms; also if R, C, or L. Third output proportional to relative antenna current; BNC connections. With schematic; 2x3 x3, 2 lbs sh. #T201/180L, used, $12.95

MO & PA TANK COILS from 10 to 12.5 KHz TU-10 TX tuners. Ceramic coil 5"Lx2" dia on 7"x3.1" mount bracket; #12 wire, 2 lbs sh. USED: #2684/TU10 MO; 2.4 uH, $4.25 #2697/TU10 PA; 1.35 uH, $4.

WAVEMETER

p/o AM-1956/ GRC-50 Rx/Tx 1350.5-1849.5 MHz FM oscillators; cal book for tuning CHN #, MAIN TUNE, OUT FREQ, & REC OSC. BNC connections; 3x3x9, 5 lbs sh. USED, $17.95

COAX RELAY, DC to 12 GHz, 30 W 27.5 VDC coil. Input push-on SMA; output SMA & mini-BNC conn; 3.1x1.5x1.4. #300-11266, NEW, ~~$16~~. $14.

INSULATORS

EGG-TYPE PORCELAIN STRAIN INSULATOR, 1.3"L x1"x1" with two 1/4" dia holes. #INS-EGG-95, NEW, $1.25 ea

STRAIN INSULATORS Brown porcelain 2.1"H x 2.3" dia with 0.7" dia center hole; 1 lb sh. #STI-2123D, $.65 ea; 4 for $2.

INSULATOR POST for mounting capacitors, coils, etc. 1.7"Hx3/8" sq porcelain; 1/8" di thru-hole near top; base threaded for chassis screw. #IP-1706, 4 for $1. #NL522W04, 1.5"H x 1" dia; 8-32 threaded. 4/ $1.50 #NL523W14, 2"Hx1" square; two 6/32 threads top and bottom, 4 for $1.50

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STAND-OFF with CLIP for clip-in resistors or capacitors. 2" H x 1" dia w/ 90 degree angle 3/4" dia clip, #NS4W0416, $2.00

#NS4W1208, 1"H x 0.8" square insulator with clip for 0.5" dia cap, $1.50

PORCELAIN STAND-OFFS, no bases but screw threaded: #P-4H-75D, 4"Hx 0.75" dia; 8-24 threader. $.75 ea #P-7H-100D, 6.8"H x 1" dia; 10-24 threaded. $1.00 ea

Strain Insulators

RP-5 STRAIN INS, 4"Lx0.8" dia. two 1/4" dia holes 2.75" O.C. Similar to IN-88 style #3G1250-64.15, $1.25

BROWN porcelain insulator 8.5"L x 1.8"Hx 1"D with reinforced 0.5" dia hole on ends; 3#. #SPI-85181, $1.95; 2/$3.

WHITE insulator 12.5"Lx1.5" x1" with reinforced 0.5" dia holes on each end; 3 lbs sh. #INS-9664, NEW, $2.95

HI-POWER FEED-THRU INSULATOR top 4"Hx 6.3" dia ceramic has 1.5" dia hole & 8.3" dia collar for mounting. Bottom ceramic 4.5" x 5.3" dia; 20 lbs sh. #INS-HP, ~~$22~~. $16.

MP-48A INSULATOR for WW-2 vehicular spring antenna base; 3.6"Lx2.6" dia, 4 lbs sh. $16.00

COLLAR for MP-48A, fits bottom of base, $2.50

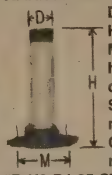
FLEX COUPLINGS

#CFX-CPL-133, 1.3" dia ceramic connects 1/4" shafts. $3

#BFX-CPL-3-5, 1.3"L accordian style; connects 1/4" to 1/2" shafts, $5.

STAND-OFFS

STAND-OFF INSULATORS, crows feet type. Brass plated bases and terminals:



D= Diameter
H=Heighth
M=Mlount base holes' center distrance
ST=Screw terminls
CT=Clamp terminals

#B-H3-D1.25-ST3, brown ceramic; M=2.25". Term. cap: 7/8x1 5/8" dia; 2 lbs. $2.75 #W-H5-D1.25-ST, white; M= 2.625". Term cap; 3/8x 1 1/4" dia. 3 lbs sh. $3.75 #B-H5-D1.25-CT, white; M= 2.25". Term cap: 1x1 5/8" dia. 3 lbs sh. $4.00 #B-H7-D1.25-ST, brown, M= 2.6", Term cap 1x1 3/4" dia; 3 lbs. sh. $4.75

QUANTITY DISCOUNTS on above! 10-25 ea (1-type) 20% OFF; 25% (26-99), 30% (100+)

AC LINE CORDS

GROUND FAULT INTERRUPT (GFI) LINE CORD, 12 ft 3-conductor #18 AWG; w/ RESET button. #18-GFI, $2.50

3-COND LINE CORDS:

#BL-3CG, 6 ft #18 wire; Black, molded. USED, $1.15 #14-3CBF, 6 ft flat w/ R-A plug; #14 wire. $2.00

"PIGGYBACK" CORD, 8' 3-cond #18; plug has receptacle for another plug. $1.65 ea

BUSINESS MACHINE CORD, 3-blade type w/ AC plug; 6' black, #18 AWG. #HP-NS, $2. #16-HP-NP, #16 AWG 3-blade line cord; no AC plug. $1.95

HEATER CORD type HSJ, 3-cond 7.5' #16 wire; grey molded R/A plug. #HSJ-16, $2

RFI STRIP MESH

STEEL MESH over 1/2" square foam stripping seals and reduces un-wanted radio frequency interference of RFI genrators like transmitters, oscillators and computers when installed be-tween cabinet and chassis. Strip is 16 ft long and can be cut; 4 lbs. #RFI-8820, NEW, $12.95

SHOCK MOUNTS

you bolt to equipment.

STYLES A B C

#SM-4A, 4 lb, $.45 SM-6A .50 -9A, 9#, $.60 -12A, 12#, .75 -12B, 12# .85 -15B, 15#, $1. -24B, 24# $1.25 -50C, $1.50

Circuit Breakers

AN-3161- style PUSH BUTTON 5 amp breaker, 24-30 VDC; 2x2x0.8. $1.25 ea

TOGGLE 30 VDC breakers: #AN-3160-5, 5 amps, $2.75 #8751K5-10, 10 amps, $3.00

E-T-A BREAKER, small 1.9"H x 0.8 x0.4 250 VAC 0.5 amp; ETA #41-06-P30, UNUSED, $1.95 ea

AIRPAX BUTTON BREAKER rated 250 VAC/50 VDC 2.7 trip amp; 2.4"Hx1.4"Wx0.6"D. #PR11-1-2.00A-XX-V, $1.50

HEINEMAN AM12HK- type 2.5x2.8x2.3
32 VDC 8 A $2.50
32 VDC 20A $3.00
60 VDC 20A $3.50

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#JA2-A8-A, 240 VAC; hold 17A, trip 21.25 A. $2.00

HEINEMAN CD2 type breakers, ganged two pole. 4.8x2x4, 2 lbs sh. NEW: #CD2-Z10-1, (Rt.) 0.035 A DC Cur P. (Lt.) 68 A 270 VAC 60 Hz Cur 3. ~~$4.00~~ $2.50 #CD-2-Z74-2 , 10 A 132 VAC 60 Hz T.D. 2; 125 A 10 VDC T.D. 3. ~~$4.25~~ $2.75 #CD2-A3-DU two 18 amp 240 VAC T.D. 1. ~~$4.50~~ $3.00

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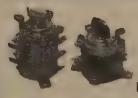
HEINEMAN PUSH RE-CIRKIT, 5/8" dia "fuseholder-size"; 2.5 amp 50 VDC or 250 VAC. #KD1-2.5, NEW, $1.50 ea

ANTIQUE SWITCH, black knob rotates "ON"-"OFF"; black cover on porcelain base. 5/3 amp 125/250 VAC; 2.5" dia. 1 lb. #2148-62B (or =), $4.25

TAP SWITCHES



ELECTRO SWITCH tap switch, 3 lbs sh. UNUSED: #568-5883, 4PDT 60 amps 40 VDC; w/ knob, 4x4.4" dia, $7. #124106LE, 6PST 45 A 600 V cont. 40A 600 VAC interrupt; no knob. 5x4.4, $10.00

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#LOV-230, 2-deck 4-pos continuous turn; 120/240 VAC 10/5 A. Shaft 3/16" dia, LESS knob. O/a 3"H. USED, $2.50

ELECTRO SWITCH TAP SWITCH, 9-Deck 3 Pole 3-Positions: ABEFIJ- BCFGJK-CDGHKL per deck. Rated 7.5 amps 125 VAC; 7"L x3.8" dia. #ESI265096, used w/knob $15

6-POSITION CERAMIC TAP SWITCH for 100 W xmitter; 2.3x2.3x1.8, 1 lb. #3Z9605, $3.95; 10 for $32.

Lever Switches

4PDT one side 2PDT other side, both sides mom. #1155 new $2.00

TV-2 tube test P1 lever sw; make 2-break 2. USED, $2.00

DPST momentary normally open #050-338, unused, $2.

MULTI-PUSH SW

SWITCHCRAFT

DW-Type, 9-button Push-on/Push-off; each section DPDT 3 amps AC; 0.5 A DC 125 V non-inductive. Can use T-1 1/4 size lamp; 1x6.3 x1.5. #67097-506, NEW, $6.50

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#67137-506, 13-button Push-on/Push-off; 8.8" W. $7.50

KLIXON 15 AMP PUSH BUTTON w/2.3" W mount flange; fits 1.4" x0.8"x1.4"D hole. #43A8304, unused, $1.50 ea

Mini Switches

Black= Blk. White= wh. NEW: SPDT on-off-on, wh. toggle (b); Alco #MLD106E, $.75 SPDT on-on, blk. rocker (c) JBT #MR2-123, $.65 SPDT on-on, blk push-type Alco #MSP105D, $.60 SPDT on-on 1-side mom; blk or wh push; CK8168 $.65 SPST black rocker (not mini) Carling #123, $.60 SPDT mom push switch; C-NC-NO., C&K 8125, 2/$1. DP3T one side mom. (f) toggle; Alco #CST-023TA, 2/$l. DPDT on-on slide (h), 6/$1. SUB-MINI SLIDE SWITCH, SP 3-pos: #SLS-131PC, 4/$1.

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MINI-TOGGLES, 120 VAC 6 A: SPDT ON-ON, used, $.60 SPDT On-Off-On, used, $.75 DPDT On-Off-On, NEW $1.25

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ROCKER SWITCHES, 1.6"Wx 0.6"Hx1.3"D; mt flange 1.9"W #0319, SPST, $.39 ea; 3 f/ $1. #0320, SPDT momentary both sides, $.65 ea. 2 for $1.20

MICROSWITCH ALM-20 push-On/ push-Off SPDT switch w/red 5V LED; 0.9" sq x 2"D. #ALM-20-5V, $2.50 ea

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SPST ROCKER DIP SWITCHES for PC board use. Can be soldered or fit in socket. Grayhill mfg. NEW #76SB04, 4 sw, $.65 ea; 6/$3.

KLIXON THERMOSTAT SPST 4 amp 250 V. Open @ 170°F +3 ; 20 differentil. 2.6" dia X 0.9"D. #C-2851-5, $3.00

Toggle Switches

some single hole mount, some with mount plates; may be Used or UNused:

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AIRCRAFT-type Toggles, two hole mount:
SPST 5A/125V, #B-15 $.65 (momentary norm-closed)
SPDT 5A/125V, #B-9A $.75 (ON-OFF-ON)
SPDT 5A/125V, #B-7A $.75 (ON-OFF-ON momentary)

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INDUSTRIAL-type TOGGLES:
SPST 8A/125V, #8817K2 $.35 (above momentary)
SPDT 8A/125V, #ST-42D $.35 (ON-ON)
DPST 5A/125V, #ST-22K $.35
DPST 10A/125V, #ST50K $.50
DPDT 10A/125V ON-ON, #8824K14 or =, $.75
DPDT 10A/125V ON-ON momemtary, #ST-52R, $.60
DPDT 6A/125V ON-ON; 1" mount barrel, 1/2" dia white ball cap, #T-WB-87, $.75
4PST 15A/125V, #7661K5, $1.

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#MS250229-2 DPDT TOGGLE SWITCH, 2"Wx1.4"Hx1.5"D switch + 7/8"L toggle handle. "Pull" handle to unlock positions On-Off-On. UNUSED, $7

DOLLAR-DAZE **55-93** MICROSWITCH kit, five SPST various style. $1.25

C&K KEY-SWITCH for electronic equipment; SPST 4 amp 125 V rated. Two keys; 5/8" dia, 1" depth. #CK-KY-SW, NEW, $4.

3 KV Arrestor

ABB Type LV SURGE ARRESTOR, 9.3"L x3" dia; ceramic. Includes mount bracket, ground wire w/strap, hardware; 7 lbs. #ABB-LV4/91, NEW, $15.

CRYSTALS

BLILEY 200 KHz XTAL OVEN w/ CR-47 size xtal as used in R-390 & R-392 receivers; 26.5 VDC, octal base. #TCO-1C-200K, $18

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JK02 OVENS for CR-26 xtal. 6 - 24 VAC/DC; plug into octal socket. Less xtals; USED #251B1001 for one xtal, $2.25 #251B1003 for two xtal, $2.75

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FT-241 XTAL SET for BC-604 (SCR-508/528) WW-2 xmitter 80 xtals (chan 0-79), $85.00 200 KHz FT-241 XTAL, $4.00

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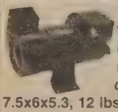
XTAL SOCKET ADAPTER for two xtals w/ 0.5" O.C. pins; octal base. #2Z307-166, $1.50

BLOWERS & FANS



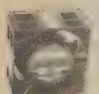
FASCO DUAL BLOWER, 50 CFM 115 VAC 60 Hz 0.74 amp @ 2800 RPM. Outlets 2"x1.6": one outlet parallel to mount base; other is at R/A . Outlets can be aligned. Inlets 2.5" dia. O/a 7.5x6x5.3, 12 lbs. Fasco, #127S217, UNUSED, $12.50

T-368 BLOWER, 120 V 0.45 A 60 Hz; motor 1/40 HP 3400 RPM. Outlet 2.25" inlet 2.5" dia. Mounted on R/A bracket with 2.75 mf 330 V capacitor. Blower o/a 6" dia x 7.5", 10 lbs. #B2/T368, used, $20.

5-BLADE COOLING FAN removed from military power supply; 4.3" dia rotation. 115 VAC 3300 RPM; with capacitor. 2.8"D. #FAN-2054, used, $3.50

5-BLADE COOLING FAN, 4.6" dia rotation; no enclosure. Mounting bracket hole centers 5.9" apart. 115 VAC 60 Hz. 2 lbs sh. Airtrol #11-2100, NEW, $4.95

5-BLADE FAN, 6.8" dia mounted in 9.5x 11.3 aluminum frame with 8x8 removable filter. Motor 105/ 125 VAC 50/60 Hz 1/40 HP 3350 RPM; requires 4 mf 330 VAC capacitor (not supplied). 5.3"D behind panel, 10 lbs. #B201/MD141, USED, $9.95



Mini BOXER 12 VDC FAN, 0.13 amp; 3.6" sq X 1". #3610NL, NEW, $10.

PANAFLO MINIATURE 12 VDC FAN 2.3" sq. #FBP-068-12L, NEW, $7.95

CENTAUR 24 VDC AXIAL FAN, 11 watts but operates well at 12 VDC. 4.8" square metal frame with 5-blade plastic fan; 1.5" thick, 2 lbs sh. #CNDC24K4-601, NEW, $8.95

FAN-TYPE BLOWER, 115 V 60 Hz 20 watts; 4" plastic fan blades. Open frame low noise motor in metal casement-type frame. Approximately 100 CFM. 13x5x2, 5 lbs. Howard #1075-3102, used, $4.50

DUAL 220 VAC BLOWER 1/8 HP 3450 RPM; about 450 CFM. Removable frame; 6.5x29x7.5, 40 lbs. #URC683-KP, used, $15.

Heatsinks

#HS-10169 HEATSINK, 6"Lx3.5"W x1"H; drilled three 7/16" dia holes for diodes, 2 lbs sh. $2.50

#HS5451-F, 5"Lx4.5"Wx1.1"H with flat back for easy mount; two 7/16" dia holes. UNUSED, $2.50

#DHS4525 DUAL HEATSINK STACK, each 4.5x2.5x1 with TO-3 transistor; 3 lbs. Used, $2.00

#HS-3929A, 4.6x4.4x2.6 with 2N2226, used, $3.00

#2T34513, 3x4.5x1.3 for two TO-36, $1.25 ea

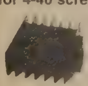
#WE-H1D HEATSINK w/diode approx 100 piv 25amp; 5x3x1.3, 1 lb. USED, $2.50

#2T351-4 with two 1/4" holes for transistors; 2.8x4.5 x1.4 flat bottom, 1 lb. $1.50

#1T441 for single TO-3; 4.3x4x1, $1.75

#3D528-8 HEATSINK, 5x3x1.6; drilled for 3 large stud rectifiers (1" dia recesses), $2.00

HEATSINK T-RACK, mount 8/ TO-220 transistors & 2 diodes. Drilled for 4-40 screws; 8.5x2x1.5. #HS-T-MI2, $1.95; 2/$3.



#THS-88, 2.5x3x1 finned area and 2.1x1.5" flange for TO-3, $.85

WAKEFIELD SERIES 680, 1.8" sq X 1"H:
#680-1.0-GG55, for 0.33" dia diode. $1.25
#680-.75A, forTO-3 transistor, $1.35

Axial Fans

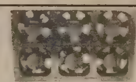
AXIAL FANS, 4.8" sq X 1.5" thick; 115 V 60 Hz. Removed from used equipment:
3-BLADE Rotron MUFFIN or =; 14 W, $6.00
5-BLADE in metal frame; 18 W. Various mfg. $8.95

PAPST #3214F 18 VDC 2 w / 30 VDC 3 W FAN 9-blades; 3.5" square X 1" deep. NEW, $9.00

TORIN TA300 3.1" sq X 1.6"D 7-blade mini-fan in metal housing; 115 VAC 50/60 Hz, 2 lbs sh. NEW, $10.95

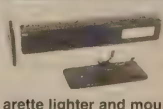
6" DIA AXIAL FAN 115 V 60 Hz 200 CFM; 5-blade in 6x6.8x1.5 metal frame; 3 lbs. USED, $7.95

6-Fan Panel



17.3"W X 10.5" panel frame has six high output Torin TA450S (or =) 4.6" square 5-blade metal-framed fans. Each fan rated 65 CFM and requires 115 VAC 50-60 Hz 0.11 amps; 12 lbs sh. #6F-PNL, used-excellent, ~~$45.00~~ $39.50

Hupp Vehicle Fan



12 VDC HUPP FAN with oscillating grill designed for use in cars, trucks, buses, RV's, etc where "extra" air movement is desired. Plugs into vehicle cigarette lighter and mounts on dashboard or other flat surface. White plastic enclosure has black grill and pivots on mount to adjust angle. Includes 4 ft cord and brack-ets. 5x9x3.4, 4 lbs sh. #HUPP-200-14, NEW, $12.

HP Analyzer Plug-In

HEWLETT-PACKARD 8553B SPECTRUM ANALYZER PLUG - IN for HP-141T mainframe; covers 1 Khz to 110 Mhz in bands 0-11 and 0-110 Mhz. IF bandwidths: 10 Hz to 300 Khz, 1-3 sequence. Scan widths on 10-division CRT: 20 Hz/div to 10 Mhz/div in 18 calibrated steps, 1-2-5 sequence. 4x8.9x13.5, 17 lbs. USED REPARABLE, $250. Manual, partial repro, $17.

HP-8556A, similar to 8553B but covers 20 Hz to 300 Khz range. USED-REPARABLE, $175.00

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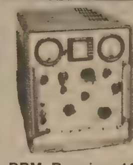
HEWLETT-PACKARD 8445B Opt 002 TRACKING PRESELECTOR for HP-141T/ 8555A spectrum analyzer over 10 Mhz to 18 Ghz. Suppresses mixing image and multiple responses during spectrum tests. Functions as YIG filter over 1.8-18 Ghz with selectable scans of 2-4-6 or 8 Ghz. Uses low pass filter below 1.8 Ghz. Opt 002 provides Coarse & Fine manual controls and MODE Auto-Manual-Remote-Low Pass select; N connections. Less interconnect cable. Requires 100/120/200/240 V 48-440 Hz. 3.5x16.8 x18.4, 25 lbs sh. USED-REPARABLE, ~~$450.00~~ $325.

HP-8443A TRACKING GENERATOR-COUNTER, similar to above except for use with 141T/ 8553A 0.1-110 MHz spectrum analyzer. USED-REPARABLE, $295.00

Selective Voltmeter

HP-3586B FREQUENCY SELECTIVE VOLTMETER, measures tone level, idle channel noise, weighted noise at voice & compare to carrier frequency over 50 Hz to 32.5 Mhz @ 75 ohm input; voice level over 50 Hz to 100 Khz @ 600 ohms. Amplitude + 20 to -130 dBm; resolution to 0.01 dBm. Option 003 measures phase jitter, noise-with-tone, signal-to-noise with tone ratio and single level impulse noise. Push-button control & entry; HP-1B programmable. NA Bell standard. Requires 100/120/220 /240 VAC 48-66 Hz; 7x16.8 x18.4, 62 lbs sh. USED-REPARABLE, $595.

H-P RF Generators



HEWLETT-PACKARD 608E SIGNAL GENERATOR, best of 608-series covers 10-480 Mhz AM-CW-pulse; 1 & 5 Mhz calibration check points over range make +/-0.05% accuracy possible. Modulation 400 or 1000 Hz internal; external 20 Hz-20 Khz, 0 to 90%. Large 3.5" dia meters for Percent Modulation & Output Volts-DBM. Requires 115/230 V 50-400 Hz; 16.4x13.3x21, 72 lbs. USED-REPARABLE, $225. CHECKED, ~~$325~~. $275.

MANUAL for 608E, partial repro, $15.00

FIBERGLASS TRANSIT CASE for HP-608 generators; 30 lbs sh. #FIB-USM-44B, used, ~~$40~~ $30.

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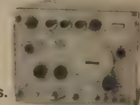

HEWLETT-PACKARD 620B SIGNAL GENERATOR, 7 to 11 Ghz in single band FM, pulse or square-wave modulation. Calibrated output 0.1 uv to 0.224 V into 50 ohms. Also second 0.3 MW uncalibrated output usable for phase locking. Pulse rate 40 to 4000 pps; width 0.5 to 10 usec. Uses 5721 or = klystron. Requires 115/ 230 VAC 50-400 Hz. 13.9x17.5 x17.4; 70 lbs. USED-REPARABLE w/output, $300.00

HP-618C GENERATOR, similar to 620B except 3.8 to 7.6 Ghz; REPARABLE w/output, $350.00

MANUALS for 618B or 620B, partl-repro $15.00 ea

H-P AC VOLTMETER

HP-403B (Opt 001), 0.001 to 300 V-rms in 12 steps; -60 to +50 DB in 10 DB steps. Response 5 Hz-2 MHz. Design accuracy +/-0.2 DB of full scale 10 Hz-1 MHz; < +/- 0.8 DB all. Input imped: 2 megohms. Requires 115/230 VAC & four 6 V 225 ma batteries in regulating circuit. LESS batteries; 5.1x6.3 x8, 9 lbs. USED-REPARABLE, $59.50

MANUA!. for HP403B, partial repro, $10.00

Audio Generator

HP-204C AUDIO OSCILLATOR, 5 Hz to 1.2 MHz in six ranges. Distortion 0.1% over 30 Hz - 100 KHz; <1% overall. Output >2.5 V rms into 600 ohms; >5 V open circuit. Output control > 40 DB continuously variable. Requires 115/ 230 VAC 48-400 Hz and 6 V battery in regulator circuit. 5.1x6.3x8, 9 lbs sh. USED-REPARABLE with output, less battery, $85.00

MANUAL for HP204B, partial repro, $10.00

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HP-200CD OSCILLATOR, vacuum tube -type covers 5 Hz to 600 KHz in five bands X1-10-100 -1K-10K; variable output 10 volts into 600 ohms, 20 V open circuit. Requires 115/230 VAC 50-400 Hz; w/ manual copy. 7.5"Wx 10.8"H x12.5"D, 20 lbs sh. USED-REPARABLE, $85. CHECKED, $125.

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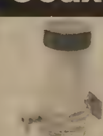
HP-201C, similar to 200CD except 20 Hz to 20 KHz in 3 ranges; output 3 W (42 V) into 600 ohms; 50 V max no load. Distortion <0.5% 50 Hz-20 KHz @ 1 W. Attenuator 0-40 DB in 10 DB steps. CHECKED w/book, $119.50

Coaxial Freq-Meters



HEWLETT-PACKARD, 5 lbs sh. USED:
G532A, 3.95-5.3 GHz, ~~$250~~. $195.
J532A, 5.3-8.2 GHz, ~~$350~~. $250.
P532A, 12.4-18 GHz, ~~$225~~. $175.
R532A, 26.5-40 GHz, ~~$350~~. $275.
536A, 960-4200 MHz, $295.
537A, 3.7-12.4 GHz, $235.

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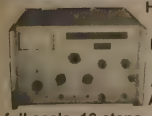
FREQUENCY ENGINEERING LABORATORIES (FEL) WDA-940 (= HP-536A), 960-4200 MHz, UNUSED, $195.

HP Wave Analyzer



HEWLETT-PACKARD 310A WAVE ANALYZER, covers 1 KHz to 1.5 MHz; bandwidths 200, 1000 & 2000 Hz. Resolution 200 Hz/div. Modes AFC-Normal-BFO-USB-LSB-AM. Amplitude ranges 10 uv to 100 V full scale, 16 steps. AFC: dynamic hold-in +/-3 KHz min @ 100 KHz; tracking 100 Hz/sec. Has headphone jack; operable as VLF receiver. Requires 115/230 V 60 Hz; 10.8x 16.8 x18.4, 50#. USED-REPARABLE w/book, $125.

HP-312B Analyzer

FREQUENCY SELECTIVE VOLTMETER, 1 KHz to 18 MHz AM, AM AFC, BEAT, USB, LSB in 18 overlapping bands indicated on 7-digit readout. Synthesizer for tuning phase-locked in 1 MHz steps. Bandwidth 200, 1000 or 3100 Hz. Reference level -40 to +20 DBM in 10 DBM steps. Amplitude -60 to 0 DB in 10 DB steps. Impedance selectable 50, 60, 75, 124, 135, 150 or 600 ohms balanced or unbalanced. Audio output > 0.5 V rms into 10K ohm full scale deflection. Recorder output 1 V full scale deflection open-circuit. Requires 115/230 VAC 50-400 Hz; 16.8x10.5 x18.8, 51 lbs. USED-REPARABLE, $195.

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HP-302A WAVE ANALYZER, 20 Hz-50 Khz; modes AFC-Normal-BFO; Resolution 10 Hz/div. Meter ranges 30 uv-300 Vrms in 15 steps; dynamics >75 db. 600 ohm impedance; BFO output 0-2 V open circuit. Vacuumtube-type. 12.5x 20.8x14.5, 50 lbs sh. USED-REPARABLE w/book, $135.

X-Y Scope

HEWLETT-PACKARD 130C SCOPE, 500 Khz bandwidth and 0.2 mv/cm senstivity for X-Y amplifiers useful in phase measurements. Large easy-to-view 5" CRT. Sensitivity: 0.2 mv to 20 V/cm in 16 calibrated steps, 1-2-5 sequence; vernier to 50 V/cm. Sweep 1 usec to 5 S/cm in 21 steps; vernier to 12.5 S/cm. Also 350 Hz squarewave calibrator, X2/X50 magnifier, auto trigger, beam finder. 115/230 VAC 50-1000 Hz; 7.3x16.8x18.5, 38 lbs sh. With manual: USED-REPARABLE, ~~$135.~~ $75. CHECKED, ~~$195.~~ $155.

275 MHz SCOPE

HEWLETT-PACKARD 1720A PORTABLE SCOPE, DC to 275 MHz response with dual channels, large 6x10 CM display, and selectable input impedance 50 ohms or 1 megohm. Modes Channel A or B, A+B, A & B alternating, A & B chop. Deflection: 5 mv-5 V/div in 10 calibrated steps, 1-2-5 sequence plus vernier to 12.5 V. Sweep: 10 ns-0.2 s/ div in 23 steps, vernier to 0.5 sec and X10 magnifier. Trigger normal, auto or single. Delay sweep: 10 ns-0.1 s/div in 22 steps, vernier to 0.25 sec; delay time varies 0.02 us-2 sec. Calibrator 1 KHz squarewave, 1 V p-p. Requires 115/230 VAC 50-440 Hz, 38 lbs sh. USED-REPARABLE, $425. CHECKED, $550.00 MANUAL for HP-1720A, partial repro, $25.00

H-P Sweep Generator

HEWLETT-PACKARD 8601A SWEEP GENERATOR, compact unit covers 100 KHz to 110 Mhz in two bands 0.1 -11 &1 - 110 MHz; +/-1% design accuracy. Output +20 to -110 DB in 10 DB steps w/ 13 DB vernier; CW or Sweep SYM-Video-Full. AM-FM modulation 1 KHz. Requires 115/230 V 60 Hz. 6x7.8x16, 26 lbs sh. USED-REPARABLE with output and book, $395.00

500 MHz H-P Counter

HP-5345A ELECTRONIC COUNTER, solid-state 9-digit plug-in type measures DC to 500 MHz channels A & B without any plug-in; resolution 2 ns single shot. Gate 100 nS to 1000 S in 11 decade steps. Function Select: Plug-In, Freq A, Period A, Time Int A to B, Ratio B/A, Start Stop. Channel controls 50 or 1 M ohm input, x1/x10 Atten, AC-DC, and Level. Requires 100/120/220/240 VAC 48-66 Hz; 5.3x 16.8x19.5, 42 lb sh. USED-reparable w/output, $250.

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HP-5245L COUNTER, 7-digit predecessor of 5345A; measures upto 50 MHz without plug-ins. 100 mv sensitivity; gate 1 usec to 10 sec in decade steps. Units at least "test" count. 5.3x16.8 x18.3, 34 lbs sh. USED-REPARABLE without plug-in, $69.50 MANUAL, partial-repro, $20 w/set purchase.
HP-5245 with 5253B 50-500 MHz plug-in, $135.00
HP-5257A Transfer Oscillator plug-in, 0.05-18 GHz, $250

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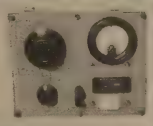
HP-5328AF/096 ELECTRONIC COUNTER, solid-state modular design; counts upto 512 MHz on 9-digit LED display. Mainframe has channel FUNCTION selector, FREQ RESOLUTION decade scaler 0.1 Hz to 1 MHz in 8-steps, 10 MHz reference oscillator, input for external freq-standard. Standard Universal 100 MHz Module controls Channels A & B functions LEVEL, AC-DC select, ATTEN 1-10-100, and Marker output. Sensitivity 25 MV to 40 MHz; 50 MV 40-100 MHz. Trigger level +/-X 2.5 V atten-level. Impedance 1 Megohm shunted by 40 pf. Option 030 Channel C module provides 5-512 MHz range, 15 MV rms sensitivity. Trigger fixed; 50 ohm impedance. With Option 011 HP-1B computer interface & manual repro. Requires 100/ 120/220/240 V 48-66 Hz; 3.5x 18.5x19, 28 lbs. USED-REPARABLE, ~~$250.~~ $195 CHECKED, except for HP-1 computer interface, $450.

Spectrum Analyzer

TEKTRONIX 491 SPECTRUM ANALYZER, portable unit with 8x10 cm CRT display covers 10 MHz to 12.4 GHz; up to 40 GHz using external mixers (optional). Resolution 1 KHz to 100 KHz, coupled with calibrated dispersion positions but separately switchable. Sensitivity > 100 dbm to 8.2 GHz. IF attenuation: 51 db using toggles 1-2-4-8-16-20 db. Sweep: 10 us to 0.5s/ div in 15 steps. Dispersion: 1 KHz to 10 MHz/ div 1-2-5 sequence using 1 KHz & 1 MHz ranges. Requires 90-136/180-272 VAC 48-440 Hz. 7x12.5 x17.5, 36 lbs sh. USED-REPARABLE with display of RF input, $1195.00 MANUAL, partial repro, $25.00

Audio Output Meter

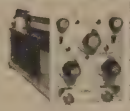


TS-585 OUTPUT METER for audio amps, filters, oscillators. Ranges 0.1-5 mw, -10-+7 dbm; 1-50 mw, 0-+17 dbm; 10-500 mw, +10-+27 dbm; 100-5000 mw +20-+37 dbm read on 3.5" dia meter. Multiplier circuit x0.1, x1, x10, x100 allows input impedances 2.5 to 20000 ohms in 40 steps; 30-10000 Hz response. 8.5x11x5.5, 17 lbs sh. USED, $69.50; MANUAL, partial-reproduction, $8.50

AC-DC CAL Standard

RFL 829 CALIBRATION STANDARD for DC-AC instruments. Full scale ranges: 0.25 mv to 2000 VDC in 13-steps or 1.5-750 MV AC in 9-steps and 1.5-1500 V in 10-steps. AC-DC amps ranges: 0.05-20 A in 10 steps. Accuracy +\-0.5% of full scale on 6" wide mirror-backed meters. Freq range 50-1000 Hz. Standard cell not available. Copy of general cal-book & operating info included. Requires 115 VAC 50-400 Hz; 22.8x 32.3x16.5, 200 lbs sh. USED-REPARABLE, $350.

HP-1801A Dual Trace



HEWLETT-PACKARD PLUG-IN for 180-Series or USM-281A O-scopes Response DC-50 MHz. Deflection 5 mV to 20 V/div in 12 steps. Trigger A, B, A+B, chopped & alternate; 6 lbs sh. GOV'T-RECOND w/manual, $85.00

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VERTICAL PLUG-INS for TEKTRONIX 535/545-Series and other scopes, USED-REPARABLE:
TEK CA Dual-Trace DC-24 MHz, ~~$75.00~~ $40.
TEK M Four Channel DC-20 MHz, $100.
TEK O Operational Amp, $85. MANUAL repro, $15.
TEK Q Transducer-Strain Guage, ~~$145.~~ $85.
TEK Z Differential Comparator, $85.
TEK 1A1 2-Trace 30/50 MHz Tek 545/547, $49.
TEK 1L20 Spectrum Analyzer, 0.01-4.2 GHz, $495.
TEK 82 Dual-Trace for Tek 581/585/A, $50.

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7A13 DIFFERENTIAL COMPARATOR plug-in for 7000-Series scopes; DC to 100 MHz. Usable as differential input preamp, conventional preamp or as comparator. +/- 10 V offsetting voltages; 4-digit readout. 5 lbs sh. USED-REPARABLE, ~~$195.~~ $125.
TEK 7A16A SINGLE-TRACE for Tek 7900-Series scopes; DC to 225 MHz. USED-reparable, $100.
TEK 7L13 SPECTRUM ANALYZER PLUG-IN, covers 1 KHz to 1.8 GHz; CRT readout of center frequency, 30 Hz-3 MHz resolution bandwidth, and automatic phase-lock. 5x8x14, 20 lbs. USED-reparable w/output, $1500.

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CRT's for 400- & 500-Series Scopes: Write your needs!

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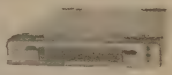


TEKTRONIX 1106 BATTERY PACK for 455, 465 & 475 scopes w/option 017. Nickel-cadmium batteries provide 22 to 24 VDC 7 AH 5 amps max. Charges from 90-120/200-240 VAC input. 2.6x11.5x17, 20#. GOV'T-RECOND w/book ~~$125~~ $75

TEKTRONIX L-C METER, vacuum tube-type meter measures small reactances in series between 125 and 140 KHz. Induct-ance L to 300 uH & capacitance C to 300 pf in ranges 0-3, 10, 30, 100, 300 read on 4.5" panel meter. Useful in measuring small vacuum tube interelectrode capacitances. Requires 105-120/210-250 VAC 50-60 Hz; 10.6x 7x11.1, 18 lbs sh. USED-REPARABLE w/book, $95.00

Ballentine 9632 DVM

BALLENTINE 9632M (AN/USM-451) DIGITAL MULTIMETER, 3-1/2 digit LCD display operates from two D-cell batteries. AC-DC VOLTAGE ranges 0.2-2-20-200-1000 V with overvoltage protect. AC-DC CURRENT ranges 0.2-2-20-200-2000 MA-10 Amps. Ohms: 200-2K-20K-200K-2000K-20M ohms. Diode Test on 2K and 20M ohm ranges. Extended freq-response 20Hz -25 KHz. Input imped: 10 megohms all ranges. LCD display may have blemish; "reparable" units tested to "zero" only. 2.8x8.2x9, 4 lbs sh.
USED-REPARABLE with test leads & bag, $39.50
GOV'T-RECONDITIONED w/"used" leads & bag, $79.50
#9632-BAD, non-working "parts" meter, $15.00
MANUAL for USM-451, partial repro, $8.50

Sound Level Meter

MITCHELL INSTRUMENTS S2A SOUND LEVEL METER, hand-held unit has scales 50 - 130 DB in 10 DB steps with 0-10 DB expanded scale meter. Measures A-weighted sound level as defined by OSHA; better sensitivity > 500 Hz. Designed to monitor noise level in work areas. Metal enclosed. Requires NEDA 1604 battery; w/soft case. 5.5x2.6x2.3, 2 lbs. #MIT013, NEW ~~$225.00~~ $175.

URM-25 RF Generator

AN/URM-25 SIGNAL GENERATOR with accessories; covers 10 KHz to 50 MHz in 9 bands. Output to 100K uv into 50 ohms. Modulation 0-50% 400 or 1000 Hz; internal 1 MHz calibrator. Includes MX-1487 impedance adapter, SM-35 antenna simulator, attenuators CN-223-224, test cable & manual repro. Requires 115 VAC 60 Hz; 11.3x14x10.8, 52 lbs sh. USED-REPARABLE, $90. CHECKED, $159.50

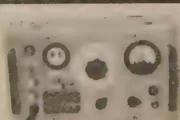
URM-120 WATTMETER

Measures incident & reflected RF from 10 to 1000 watts over 2 to 1000 MHz. Uses three plug-in coupler elements CU-753 (2-30 MHz, 50-100-500-1000 W), CU-754 (25-250 MHz, 10-50-100-500 W) and CU-755 (200-1000 MHz, 10-50-100-500 W) that fit TS-1285* meter. Max-insertion VSWR 1.08 (1.05 for CU-754/755, 500 W range). Power selectable on each coupler. TS-1285* has 3.5" dia meter, 0-10-50 W scale and N conn. W/transit case & manual. 5x4.8x7.3, 20 lbs sh.
URM-120A, (TS-1285A etc), used-REPARABLE, $200.00
URM-120B, (TS-1285B etc), used-REPARABLE, $220.00

Distortion Analyzer

TS-723 DISTORTION ANALYZER, similar to Hewlett-Packard 330B; evaluates output of audio amplifiers. Measures harmonic distortion as percentage or in decibels and noise level in RMS or DB values referenced to 1 MW across 600 ohms. Response 20 Hz to 20 Khz; distortion sensitivity as low as 0.3% of meter full scales. Noise amp gain: 40 db +/-1 db from 20 Hz-15 Khz. Set Level amp gain: 20 db +/-1 db 30 Hz-20 Khz. Input impedance 200 K ohms shunted by 40 pf. Built-in AC VTVM has ranges 0.03-300 Vrms in 8 steps; -30 to +50 db in 8 steps. VTVM response 10 Hz-100K Hz. With tubes 0D3, 5Y3, 3/6AC7, 2/6J5, 4/6SJ7, 6Y6. Requires 115/230 VAC 50-1000 Hz. 10.5x19x12, 50 lbs. USED-CHECKED, $115.00
MANUAL for TS-723, partial repro, $10.00

Solid-State Oscillator

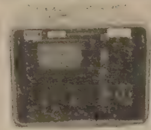


AN/URM-127 SOLID-STATE AUDIO OSCILLATOR, 20 Hz to 200 KHz in four bands. Metered output 0-10 Vrms into 500 or 1000 ohms in 7 decade ranges. Design accuracy +/-2%; stability +/-0.5%. Requires 115 VAC 50-70/380-420 Hz. 7.5x13x4.5, 15 lbs sh. USED-REPARABLE, $65. CHECKED, $115.00
MANUAL for URM-127, partial repro, $10.00

0.5 to 1200 MHz Sweep

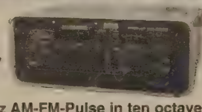
SG-677 SWEEP GENERATOR, solid state covering 0.5 to 1200 MHz in ranges 0.5-300 & 300-1200 MHz; output 0.5 V-rms into 50 ohms. Sweep width continuously variable 0.01-1 MHz (narrow), 0.5-400 MHz (Wide). Sweep rate continuously variable 5-60 Hz. Attenuation 0 to 70 DB in 10 DB steps + vernier; markers 1–10-50 MHz. Texscan mfg; requires 115 VAC 60/400 Hz. 10.5x19x17, 38 lbs sh.
USED-REPARABLE, $195. MANUAL, partial repro, $12.
ALUMINUM TRANSIT CASE for SG-677, 28 lbs, $25.00

H-P USM-338 O-Scope



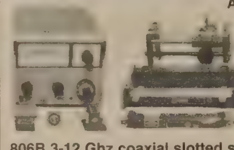
AN/USM-338 OSCILLOSCOPE militarized Hewlett-Packard 1707B solid-state 75 MHz dual-trace scope is mil-spec rated to 50 MHz response; 6x10 CM display. Deflection: 5 mv - 20 V/div in 11 ranges 1-2-5 sequence + vernier to 50 V. Modes CH A, B, A-B ALT, Chop, and A+B. Sweep: 0.1 usec to 2 S/div in 22 steps, ver-nier to 5 sec. Delay: 0.1 usec to 0.2 s/div, vernier to 0.5 sec. Input: 1 megohm shunted by 30 pf. Calibrator 1 KHz squarewave, 1 V p-p. Also X10 Magnifier and Beam Finder. With front cover and manual copy; probes not included. Requires 115/230 VAC 48-440 Hz or 11.5 to 38 VDC input; 10.3x13x20, 42 lbs sh. USED-REPARABLE, $250.00; CHECKED, $350.00

0.5 - 512 MHz AM-FM



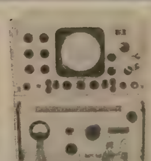
HEWLETT-PACKARD 8640B opt 323 (AN/USM-323) SIGNAL GENERATOR, military version of popular solid-state HP-8640B.
Covers 500 KHz to 512 MHz AM-FM-Pulse in ten octave ranges using 6-digit LED readout; to 1024 MHz using external freq doubler (not available). Output: 0.01 uv to 2 V (-144 to +19 DBM); modulation 400, 1000, 5000 Hz. Pulse: 0.05-5 KHz. Resolution 10 Hz (0.5-4 MHz), 100 Hz (4-64 Mhz), 1 KHz (64-512 MHz). USM-323 does NOT have these features: seventh 1/2 digit, X100 Expand, ext-count input, phase-lock. Mounted in transit case. Requires 103-127/207-242 VAC 48-440 Hz; 7.8x19.5 x22.4, 70 lbs. USED-CHECKED w/book copy, $995.

SWR Measuring Set



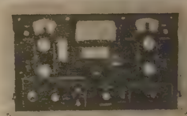
AN/USM-37D STANDING WAVE RATIO MEASURING SET for SWR measurements over 3 to 12.4 Ghz. Consists of Hewlett-Packard 415E SWR indicator, 444A untuned probe, 806B 3-12 Ghz coaxial slotted section, 809B slotted carriage, H810B (7-10 Ghz) & X810B (8.4-12 Ghz) waveguide slotted sections, H & X281A waveguide to coax adapters, HX292B waveguide adapter and fiberglass case. HP-415E is solid-state tuned audio amp for use with square-law detectors to determine SWR & Attenuation. Range 70 DB in 10 & 2 DB steps. Meter scales for SWR: 1-4,3.2-10 (NORM), 1-1.24 (EXPANDED) and DB: 0-10 (N) or 0-2 (Exp). Amp out-put 0-0.03 uv (N), 0.08 (Exp). Requires 115/230 VAC 50-400 Hz. HP415E: 7.8x6.2x11; 40 lbs. USED-REPARABLE w/book, $295.00

Spectrum Analyzer



TS-1010/UPM-84 SPECTRUM ANALYZER, covers 10 Mhz to 44.88 Ghz in eight bands; 5" 5ADP7 CRT. Resolution at 3 db points: 20 Khz over range. Dispersion: 500 Khz-Mhz adjustable (10-55 Mhz); 500 Khz-25 Mhz (55 Mhz & up). Spectrum calibrator 160 Mhz center freq +12.5 Mhz. Sensitivity as low as -63 db (10-150 Mhz); 40 db (2.0 Ghz up). RF attenuation 100 db uncalibrated internal 10 Mhz to 12.4 Ghz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 17.3x19x26, 230 lbs w/case. USED-REPARABLE, $345.
MAINTENANCE MANUAL, partial repro, $15.00
OPERATOR'S MANUAL, partial repro, $8.50
\+ +
ACCESSORY KIT for UPM-84 including five bandpass filters for segments of 0.75-11.8 Ghz range, three variable attenuators & three coax to waveguide adapters for 12.4-44.88 Ghz; 20 lbs. $85.00 with set purchase

Sierra 128 Carrier Test



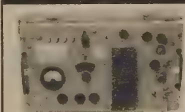
SIERRA 128A FREQUENCY SLECTIVE VOLTMETER for analyzing carrier signals 4.5 Khz to 15.2 Mhz LSB-AM-USB phase-lock. Usable as receiver. Separate Mhz & Khz tuning circuits w/ controls COARSE, FINE, CURSOR & input TRACKING SIGNAL BNC jack. Voltmeter has mirrored-scale and ranges 30 uv to 30 V in 13 steps; DB ranges -90 to +30 db. Select 75-135-600 ohm 1 Mhz calibrator; also Selectivity WIDE-NARROW, Main Tune LOCK-CONT, Audio GAIN & phone jack. Solid-state; requires 115 VAC 60 Hz. May have brown or beige front panel; 12x 20x15.5, 52 lbs sh. USED-REPARABLE w/book, $145.

SIERRA 360B SPECTRUM DISPLAY for use with Sierra 305A or 128A selective voltmeter; has 3x5 P7 long-persistence CRT. Sweep width 120, 12, or 3.6 KHz, 25 DB response. Attenuator 0-20-40 DB calibrated; vernier +5 to -20 DB. Input imped 50 ohms; IF input 21.1 MHz @ 50 uv. Oscillator input 18.8 MHz. Requires 115/230 V 50-60 Hz; 5.3x 19x15, 28 lbs.
USED-REPARABLE with manual copy, $150.00
RUGGEDIZED CASE & FRONT COVER f/360B, $20.00
\+ +
SIERRA 305A TRANSMISSION MEASUREMENT SET, consists of 305A-G Signal Generator, 305A-L Level Meter and 305A-T Tuner; 1 KHz-33.5 MHz, 10 Hz resolution + phase lock. Rackmount; 90 lbs sh. USED $595.

Frequency Selective

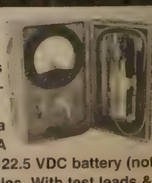
SIERRA 125B FREQUENCY SELECTIVE VOLTMETER, usable as VLF receiver, if you make a preamp for it. Freq range 1-620 KHz in one band. Attenuator -70 to +30 DB in 10 db steps or 0.0003 - 30 Vrms full scale, 11 steps. Band-width 250 or 2500 Hz, line impedance 135 or 600 ohms & two calibrators. Requires 115/230 VAC 60 Hz; 10.3x 17x14.5, 40 lbs. USED-REPARABLE with output, $79.50

X-Band Test Set



TS-147F X-BAND TEST SET for 8470-9630 Mhz range; functions as signal generator, power and frequency meter. RF output: -7 to -85 DB FM-CW-external modulation. Sweep variable 0.2-6 Mhz; pulse repetition to 4000 pps. RF input +7 to +30 DB. Sawtooth sweep 0- to -100 V. Uses 2K25 klystron. Requires 115 VAC 60-1600 Hz. 11.5x 17.5x10, 40 lbs. USED-REPARABLE, ~~$225~~. $175.
MANUAL for TS-147D only, partial repro, $12.00
AT-68 PICK-UP HORN, $12.00
UG-446 ADAPTER, UG-39 flange to N, $12..00
UG-397 ADAPTER, UG-52A flange to N, $12.00
\+ +
TS-403 RF GENERATOR, 1.8-4.2 Ghz; 0.1-200K uv out. Similar to HP-616B; 70 lbs. USED-REPARABLE, $250.
SG-557/TS-621 RF GENERATOR 3.8-7.5 Ghz FM-CW; 110 lbs sh. USED-REPARABLE, $265.00
MANUALS for TS-403 or TS-621, partial-repro, $15 ea.

ME-77 Volt-Ohmmeter



ME-77/URM-105C VOLT-OHMMETER, handy meter in ruggedized plastic case has DC & AC ranges 0-10-100-1000 V; resistance 0-2K-20K-200K-2M-20M ohms. Response 30 Hz-10KHz; has 3.5: dia FS=50 ua-meter. Requires two AA batteries for X1-X10-X100 ohms; 22.5 VDC battery (not available) for X1K-X10K ohm scales. With test leads & red alligator clip; 6.6x4x3.3, 3 lbs sh. USED, $24.95

DC Voltmeter

ME-440/USM-381 DIFFERENTIAL DC VOLTMETER, similar to Fluke 896A; ranges 0-10-100-1000 VDC. Probe for 1100 V (upto +/-5 KV common-mode) and 15 KV multiplier input. NULL ranges 0.01-0.1-1-10-100V - TVM used with 5-digit scaler as differential meter. Solid-state; w/cover & operator info. 115/230 V 60 Hz; 11x12.5x15, 30 lbs. USED-REPARABLE, $45.00

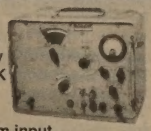
FET Multimeter

ME-297/USM-223 FET MULTI-METER measures AC-DC volts to 5000 V in sequential ranges 2.5-10-50 to 5 KV, AC-DC 1000 ohm/V or DC 20K ohm/V. Also DC current to 10 amps in full scale ranges 0.25-2.5-10-50-100-500 MA DC and 2.5-10 amps. Resistance scales X1K-10K-100K-1M-10M ohms. Includes rugged plastic case, 4.5" dia FS=50 ua meter, red-black test leads and front cover. Requires 6-PXB1 1.3 V & 1-"C" batteries (not supplied). 6x7.4x8.8, 7 lb sh. USED-REPARABLE, $34.95 CHECKED, $54.95; MANUAL partial repro, $8.50

Solid-State Scope

OS-106/USM-117 TRANSISTORIZED OSCILLOSCOPE, DC to 5 Mhz bandwidth, 4QP2 rectangular CRT, and very compact. Includes MX-2996 high gain vertical plug-in; dual-trace capability when used with MX-2995 plug-in (not available). Sweep range 0.1 u-sec to 0.1 sec in 19 calibrated steps, 1-2-5-10 sequence. Vertical sensitivity: 0.01 to 20 v/ div in 1-2-5-10 sequence; variable to 50 V/ div. Input impedance 1 megohm shunted by 47 pf. Calibrator generates 1 Khz square-wave at either 0.04 or 0.4 V p-p. Requires 115 VAC 50-60 or 400 Hz. 8.5x9.8x15, 20 lbs. USED-REPARABLE, $100. CHECKED, $175.00 MANUAL for USM-117, partial repro, $15.00

4 - 405 MHz Generator



SG-117/URM-26B SIGNAL GENERATOR, 4 to 405 MHz AM-CW -Pulse in six bands. Output 0.1 to 100K uv into 50 ohms. Modulation 400 or 1K Hz 0-50%. External pulse-mod requires positive 40 V-min 50-500 pps; duration 2-40 usec and 70 ohm input impedance. Requires 115 V 50-1000 Hz. Outer case may have small dents. 11.3x14x10.5, 36 lbs sh. USED-CHECKED, $160. MANUAL, partial repro $10. ACCESSORIES sold only with purchase of URM-26B:

CN-315 2:1 atenuator, 50 ohms, $8.00
CN-316 10:1 50 ohm, $10. CN-471 10:1 70 ohm, $10.
CU-439 impedance matcher, $10.00
BNC cords, 4 foot, $4.00 6 inch, $2.00

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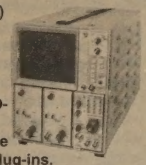
BOONTON (HP) 202H AM-FM GENERATOR, 54 to 216 MHz in bands 54-108 and 108-216 MHz; output 0.1 uv to 0.2 V into 50 ohms imped. AM Modulation 0-50%. FM deviation 0-250 KHz in four ranges internal or external. Requires 105-125/ 210-250 VAC 50-400 Hz; 10.7x16.8x18.4, 52 lbs sh. USED-REPARABLE, $150. MANUAL, partial-repro $10

NORTHEAST ELECTRONICS TTS37BR NOISE LEVEL-VU METER, 1 & 10 db/step attenuators measures level +23 to -95DBM; Noise 13 to -5 DBRN. Input imped 900 & 600 ohm circuits balanced/ unbalanced, terminating or bridged. Sensitivity -80 DBM @ 0 DB. Has large VU-meter with scales -15 to +3 VU-DB, -5 to +13 DBRN. 8.8x19x7.5, 15 lbs. USED-REPARABLE w/book, $99.50

Tektronix 7603N11S



AN/USM-281C (Tektronix 7603-N11S) OSCILLOSCOPE, modern, versatile 7000-Series scope with large 8 x 10 cm display and at least 65 Mhz response. Includes two AM-6565 (7A15AN11) single-trace and one TD-1085 (7B53AN11) dual time base plug-ins plus the 100 Mhz mainframe accepts standard Tek 7000-Series plug-ins. Vertical deflection 5 mV - 10 V/div in 11 calibrated steps, 1-2-5 sequence; vernier to 25 V/div. Sweeps: Normal, Intensified Delay, Delayed and Mixed. Rate 0.05 uS - 5 S/div in 25 steps, 1-2-5 sequence; 5 NS rate using x10 magnifier. Delayed rate 0.05 uS to 0.5 S/div in 22 steps. Requires 100-120/200-240 VAC 48-440 Hz. With book; 11.5x9.7x25.2, 52 lbs sh. USED-REPARABLE, $320. CHECKED, $400.00 MANUAL for USM281C only, partial repro, $30.00

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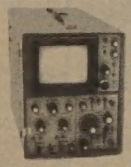
ADAPTERS for USM-281C/TEK7603:
#103-0015 ADAPTER BNC (f) - UHF (m) $2.50
#103-0032 ADAPTER BNC (m) -UHF (f) $2.50
#103-0033 ADAPTER BNC (m) to post, $2.50
#103-0030 T-CONNECTOR, BNC (f-m-f) $3.00
#012-0118 CABLE, 8 ft BNC, 50 ohms, $4.00

USM-281E 50 MHz Scope



OS-246A/USM-281E SCOPE with AM-6566 dual-trace & TD-1086 time base-delay plug-ins. DC to 50 MHz response, solid-state circuitry and 8x10 cm display. Deflection ranges: 5 mv to 10 V/div in 11 steps, 1-2-5 sequence + vernier to 25 V. Select CH 1 and/or 2 channels, alternating and chopped; X5 magnifier. Maximum input: 400 V peak AC or DC coupled. Sweep Auto, Trigger or Single. Ranges 0.1 us-2 s/ div in 23 steps, 1-2-5 sequence, vernier to 5 sec. Delay range: 0.1 us to 50 ms/div in 18 steps, vernier to 125 ms. Delay variable 0.1 us-20 sec. Sweep magnifier X10. Calibrator 300 mv & 1 V p-p @ 1 KHz. Requires 115/230 VAC 50-440 Hz; Dumont mfg. 11.4x7.9x21.3, 44 lbs sh. USED-CHECKED, $295. MANUAL, partial repro, $35.

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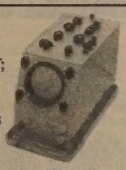
OS-189/USM-281A SCOPE, militarized Hewlett-Packard 180 with PL-1186A dual-trace and PL1187A time base sweep delay plug-ins; same specs as USM-281E. USED-REPARABLE w/trace, $150.00 MANUAL for USM-281A, partial repro, $25.00

OS-8 Scope

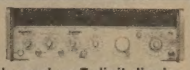


OS-8* OSCILLOSCOPE with 3RP1 CRT; small portable vacuum tube-type unit has response DC to 2 Mhz. Sensitivity 0.075 Vrms per 1" deflection. Sweep: 3 to 50 Khz. Input imped: 9 megohms shunted by 11 pf DC. Direct access to vertical and horizontal plates. Requires 115 VAC 50-1000 Hz. 9x6x13.5, 18 lbs. USED-REPARABLE, $45.00 MANUAL for OS-8 (specify "letter"), partial repro, $10.

Transistor Curve Tracer

TEKTRONIX 575 TRANSISTOR CURVE TRACER SCOPE, displays characteristics of junction and point contact transistors on 5" CRT. Collector sweep 0-200 V-peak with 1 amp curves; 0-20 V 20 A curves. Step generator 10 mv-0.2 V/step in 5 ranges; current 1 ua-200 ma/step in 17 ranges. Vertical plots collector current 0.01 ma - 1 A/div 16 steps; extendable to 0.001 ma - 2 A/div. Base volts 0.01-5 V/div in 6 steps. Requires 115/230 VAC 50-60 Hz; 16.8x13x24, 80 lbs sh. USED-REPARABLE w/book, $250.00

TEST EQUIPMENT



HEWLETT-PACKARD 8640B RF GENERATOR w/ options 001/002/003 for 20 Hz-1024 MHz AM-FM-Pulse in 11 bands read on 7-digit display. Output +19 to -145 dbm (2 V to 0.013 uv); phase-lock FM. Opt 003 is reverse power protection. Requires 100/120/220/240 VAC 48-440 Hz; 5.5x16.8 x18.8, 53 lbs sh. USED-CHECKED w/manual copy, $1795.00 HP-8640B opt 001/003, 20 Hz-512 MHz, $1395.00

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Hewlett-Packard, Tektronix & others; REPARABLE:
HP-141T /8552A /8555A SPECTRUM ANALYZER SET, 10 MHz to 18 GHz, 75 lbs sh. $1750.00
214B PULSE GENERATOR, "like new" ~~$1500~~ $995
419A DC NULL METER, 3 uv-1 KV, $125.
432B DIGITAL PWR METER no therm. ~~$350~~. $250
1200B SCOPE, DC-500 KHz dual trace, $175.
3400A TRUE RMS METER, full scale ranges 1`mv to 300 V (-72 to +52 dbm); 10 Hz-10 MHz, $125.
3456A INTEGRATING DVM, ~~$600~~. $415.
3490A 5-DIGIT MULTIMETER, ~~$250~~ $195.
3746A SELECTIVE LEVEL MEASURING SET(opt 005, 088, H39), 50 Hz-32 MHz w/1 Hz resolution. $995.
5180A WAVEFORM RECORDER, ~~$1795~~. $1450.
5342A FREQUENCY COUNTER, 10 Hz to 18 GHz in two ranges; 11-digit display, Opt 001 high stability time base; 002 amplitude measurement. $1295.
8005B PULSE GENERATOR, dual +/-10 V, $225.
8080A PULSE GENERATOR MAINFRAME with 8081A rate generator, 8084A word generator, two 8093A 1 GHz amp, ~~$1250~~. $895.
8403A MODULATOR CONTROL w/8732B, 8733B or 8734B PIN modulators, ~~$295~~. $250.
8414A POLAR DISPLAY, ~~$250~~. $195.
8614A RF GENERATOR, 800-2400 MHz, ~~$350~~ $300.
8708A SYNCHRONIZER phase-lock for 606B, $150.
8743A REFLECTION TEST, 2-12.4 GHz, $295.

+ +

FAIRCHILD ELECTRO-METRICS R-70B RFI RECEIVER uses 9 tuning heads covering 0.1 to 1100 MHz; with two cases & manual, ~~$1695~~. $1200.
FLUKE 332D/AB DC CALIBRATOR, ~~$795~~ $595.
335D DC VOLTAGE STANDARD 1 uv-1K V, $645.
1953A FREQ-COUNTER/TIMER to 520 MHz, $185.
GENERAL RADIO 1432N DECADE RESISTOR, $85.
1633A INCREMENT INDUCTANCE BRIDGE, $850.
1650B IMPEDANCE BRIDGE f/C, R, L, D, Q. $350.
LEEDS & NORTHROP 2665 Ayrton Box, $50.
4735-S Wheatstone Bridge, 0.01-1111M ohm, $175.
4754 AC-DC Decade Resistor, 0.001-10 scales $75
4755 AC-DC Decade Resistor, 0.01-100 scales $75
4756 AC-DC Decade Resistor, 1-10K scales, $75
7553-K3 Potentiometer/U-Voltmtr, 0-1.6 V, $195
7555-K5 Potentiometer/U-Voltmtr, -5 uv-1.6 V $295
7592 Volt Box for K-Series, 3 to 750 V, $65.
8691-2 Millivolt Potentiometer, 0-1110 mV, $165.
MARCONI TF2015 RF GEN, 512 MHz AM-FM, $500.
2300B AM/FM MODULATION METER, ~~$595~~. $425.
MILITARY TS-488A X-BAND ECHO BOX, $400.
NORTH ATLANTIC 225 PHASE ANGLE, ~~$795~~. $595.
ROCKLAND 5600 SYNTHESZER, 0.1-160 MHz $400.
RACAL 9303 DIGITAL RF LEVEL METER, 9 ranges 300 uV to 3 V; 100 KHz-2 GHz. ~~$495~~. $275.
TEKTRONIX 310A 4 MHz SCOPE, single-trace, $99.
422A PORTABLE SCOPE, 2-trace 15 MHz, $150.
454A SCOPE, DC to 150 MHz dual trace, $295.
585A 80 MHz SCOPE w/82 dual-trace plug-in $150.
WAVETEK 750 DIGITAL PHASE METER, ~~$350~~. $275
2001 SWEEP GENERATOR, 1-1400 MHz, $595.

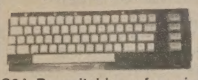
Boonton Q-Meter

BOONTON 160A Q-METER, old tube-type unit measures Q of coils in full scale ranges 100-250-500-750 read on 4.5" meter over 50 KHz to 75 MHz in 8 bands. Also Inductance/Capacitance 0.9 uH / 450 pf to 13 uH / 30 pf, +/-3 pf trimmer. Requires 105-120/210-240 VAC 50-60 Hz. 12.5x20x8.5, 42 lbs sh. USED-REPARABLE w/book, $165.00

Commodore Motherboard

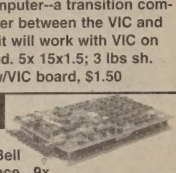
#VIC-01981 #VIC-01983
MOTHERBOARDS for COMMODORE VIC-20, an early 1980's 5K memory color computer. All components intact; UNUSED but AS-IS, 3lbs sh. Two versions:
#VIC-01981, eleven 2114 RAM, 9 VAC req, ~~$10~~ $7.50
#VIC-01983 with two M58725 2Kx8 RAM or =; requires 9 VAC and 5 VDC, ~~$13.50~~ $6.50

+ +



COMMODORE C-16 KEYBOARD, originally p/o C-16 computer--a transition computer between the VIC and C64. By switching a few wires, it will work with VIC on most keys. Change info included. 5x 15x1.5; 3 lbs sh. #KB-C16, $3.00; if purchased w/VIC board, $1.50

1200 BAUD



300/1200 BAUD MODEM dual deck Auto Answer/ Originate; Bell 212 compatible. RS232C interface, 9x LED indicators for Receive, Transmit, Carrier, Cleat-to-Send, Data Set Ready, Out-of-Service, etc. Four toggle switches for Disable Auto Answer, Receive/ Send, etc. Requires +/- 20 to 25 VDC, +5 VDC. 11x5.5 x1.2, 3 lbs. Multi-tech #MT212A, UNUSED, w/pinout ~~$59.~~ $12.00

850-895 MHz Modules

Modules from digital air to ground phone system. Receive frequency was approx 850 MHz and transmit 895 MHz. Removed from equipment-Excellent:

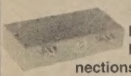
MILCOM 850-900 MHz POWER AMP, no specific data, but estimated 10 W power out using MRF-897 transistor; has heat-sink top. SMA input-output connection; 3x8.5x2, 4 lbs. #MIL-850-10PA, $49.50

CELWAVE (or =) 6-SECTION DUPLEXER for 850 MHz receive and 895 MHz transmit frequencies; SMA connections. 4x4.5 x2.4, 2 lbs sh. #CEL-85095-DP, $19.95

DITCOM MICROWAVE DF-2575 CIRCULATOR for 850-895 Mhz; 500 watts CW max, 3 KW peak. Isolation 20 DB min; insertion loss 0.3 db max. VSWR 1.25:1. Two SMA, one N conn; 1.4x1.7x1.3, 1 lb. $29.95

FERROCOM 9K15-S CIRCULATOR, 840-900 MHz; T-shape SMA-N-SMA conn. No info; 1.9x1.9x1. $24.95

4-CAVITY FILTER for 850 MHz; machined aluminum with 2- SMA connections. 2x5.7x1.4, 2 lbs. #4C-850M, $19.95



MILCOM 2-WAY COMBINER for 800 MHz, 2- SMA female & 1- male connections; 1.8x2.8x2, 2 lbs. #240-089, $19.95

ENCLOSURE BOXES

Original electronics removed making these "ripe" for your projects! Black aluminum with handles; no chassis.
#IFPC-ENC, 0.1" thick front panel has 2x24 2.3"H ventilating slots; rear has four 3"dia holes for fans. 7.8"Hx12.8"Wx12.8"D, 11 lbs. $19.95
#CAP-ENC, lighter gauge than above; box has no cuts. 7.8"x10"Wx11"D with 10x13 bottom mount plate; 6 lbs sh. $17.95

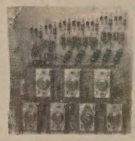
#ANT-ENC, front cut-outs for three connectors plus ventilation holes; rear also ventilated. 7"x4.5"x9.5"D, 3 lbs sh. $7.50

#LNA-EXC, 2.5x6.5x7.5 on 0.3" thick 7.5x7.5 aluminum plate. Front cut-outs for outlets & RF or similar connectors, 3 lbs sh. $7.95

VIDEO STORAGE CABINET

Clean, new, and "stackable" units look good in the home as well as the office. Dark plexiglass doors with magnetic latches attractively "hide" contents. Constructed of off-white vinyl-covered 3/4" particle board; shipped unassembled with adjustable shelf, casters, and hardware. Predrilled for assembly using screwdriver & hammer. Made for Xerox; 31"W x22"H x26"D, 100 lbs sh, (UPS shipping OK!) #0136790, NEW, ~~$65~~ $45 ea; 3 for ~~$175~~ $125

Time-Temp Sign PCB



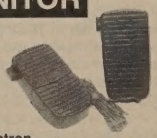
SCR/TRIAC CONTROLLER BOARD with seven 400 V 4 A SCR's and 200 V 6 A triacs. SCR's trigger the triac gates with 50 m-sec 16 V pulse that holds all triggered triacs "on" until 24 VDC to SCR's is reset. Originally p/o time-temp sign. 6x6 x0.8, 1 lb. #ASI-CMC27 w/info, $3.00

Infrared Remotes

INFRARED REMOTE CONTROLS, Draco mfg remotes for satellite positioning and channel selection. Each has A-B-C-D-E-F Satellite Select, Up, Down & Go To functions; requires 9 V transistor batter. Cheap to play with or use! NEW-not guaranteed; 2.8x5.8x1, 1 lb. #IR-DR-AIM, "Aimers", $1.50 ea; 2 / $2.

#IR-DR-CHAN with Channel Select 1-2-3-4-5 -6-7-8-9-0, Mute & Seek; $1.95 ea. 2 for $3.00

INTERCOM /MONITOR



ONE-TO-ONE INTERCOM/ MONITOR, low-cost wire-type set allows someone to listen to kids, a sick person or pet from another room. Master control has ON-OFF, push-to-talk switch, and audio electronics; a remote control has speaker only; 20 ft wire. Requires 9 VDC transistor battery (not supplied); control size 4.9x2.5 x1, 3 lbs sh. #CH-MON, unused, ~~$7.95~~ $6.

Multi-Function Control

EMERSON MULTI-FUNCTION REMOTE CONTROL SET, intended for use with ceiling fan & light, but receiver circuit board and push-button remote transmitter should adapt to experimentation and your projects. Originally one button brightened light and other two controlled speed of special AC motor (not available). Circuit board outputs to motor are fixed voltages with sequence and voltage dependent upon positions of four switch DIP code switch. Sixteen codes possible; remote actuates sequence. Receiver is not isolated from power line so extra care is necessary when working with this device. Transmitter requires 9 V battery (not supplied). Hook-up info included; 2 lbs sh. #RC-5100/1, NEW, $14.95

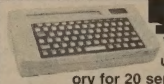
Hy-Gain CB Boards

HY-GAIN CB TRANSCEIVER BOARD, similar to Hy-Gain board converted in 73 Magazine to 10 meters (2/84) and 6M (2/85). Board has xtals, IF transformers, RF coils; no schematic. On incomplete chassis; board 6.4x6, 4 lbs sh. #PTBM036AOX, "AS-IS", $6.50 each

Key Board Surprise

We have "odd" keyboards similar to the one pictured leftover from the early-1980's when the IBM PC standard "killed" the market for them. We offer a mixed assortment of three keyboards of our choice with IC's etc for $10.00. Size & lay-out vary; 10 lbs sh. #3-KBD-90, $10.00

LEXICON LAPTOP



WORD PROCESSOR (circa 1982) uses Z80 CPU; 14 KB word memory for 20 seperate files plus 300 baud modem. Has "chick-let"style QWERTY keyboard & single-line LCD display. Requires 115 V 60 Hz or DC input. W/modem cable & battery charger. Line display OK, but function LCD illegible. 5.3x10.5x1.8, 4 lbs. #LEX-LT-WP, "AS-IS", $18. Operator-Book $5 w/purch.

COMPUTER CABLE

COMPUTER CONTROL CABLE with male DB-25 connector on one end and female on other; all pins wired. #24 AWG 300 V wire in gray PVC jacket. 25 foot length makes for nice peripheral extension cord; 4 lbs sh. Paradyne #835-3564-2511, NEW, ~~$14.95~~ $12.00

RF Exciter

RF EXCITER MODULE from 1980's HF transceiver; mixes 500 Khz USB signal with synthesized frequency to produce and amplify modulated RF. Synthesizer (not available) supplied 74.5/75.5 (LSB/USB) and 77-105 Mhz depending on desired output frequency; RF output is low level. Requires +5, +12, -12, +28 VDC; with pinout. 1x7.8 x3.3, 2 lbs. #RF-EXC-1512, unused, AS-IS, $25.00

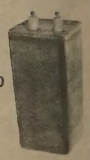
Heating-Cooling Pump

THERMOELECTRIC 127-ELEMENT HEAT PUMP DEVICE, built for portable refrigerator; operates from 12-16 VDC. In original use, it is hot on 5"x5"x1.1" heatsink side but "freezing" on 2.6"x1.8" pump side. Reversing DC polarity reverses "hot-cold" effect. Pumps 50 watts @ 6 amps continuous. With 180° C normal-closed thermal cut-out switch. 2.5"H, 3lbs. #HPD-1250, NEW, $19.95

SCR & DIODES

HIGH CURRENT COMPONENTS with pigtails but no hardware; Westinghouse/ Power X mfg. USED-good:
#SCR-135048Y, 1300 piv 500 A; 7" tail $15
#D-R610-0230, 200 PIV 300 A; 4" tail, $9.95
#D-18937300, 100 PIV 150 A; 4" tail, $3.75

Energy Capacitors



27 MF 700 VAC NON-PCB, 9.3"Hx4.3"Wx 2.7"D, 8 lbs. Captron #958-472602, $7.50
2 X 5 mf 3 KV DC, 4.5x5.5x3.5, 6 lbs. $12.50
+ +
ENERGY STORAGE; 10x4.5x3.5, 10 lbs sh:
32 MF 4500 VDC, used, ~~$26.00~~ $30.00
88 MF 1200 VDC, used, $17.50

He-Ne Laser

HELIUM NEON LASER with internal power supply. Operates from 10-14 VDC 900 MA input; output 1250 VDC 4 ma. Beam wavelength 633 mm. In 6.4x2.3x1.3 plastic case, 2 lbs sh. #LZR-993, used-CHECKED, $45.00

48 VDC 34 Amp Supply

PP-8097 SWITCHING POWER SUPPLY designed to power FET-type power amplifier used with RT-1512/GRC-215 exciter. Also +/-15 VDC 1 A output, 6" dia 16/32 VDC fan; On-Off switch, two connections to P.A. and one Input; mating plugs not available. No further info. Requires 110/220 VAC 50-60 Hz; 0x19.5x17.5, 100 lbs sh. USED-excellent, $100.00

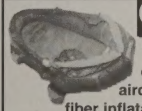
Diode Heatsink

DIODE HEATSINK ASSEMBLY, six 1N3085 100 PIV 150 amp diodes on 1.9x9.3x4.8 heatsink, 4 lbs. #DHS6-3085, used, $24.95
#DHS6-1815, with six MR-1815-SL 300 PIV 100 amp diodes; heatsink 2.6x9.4x4.8, 4 lbs sh. $32.95

12 VDC Mini-Pump

12 VDC IMMERSION PUMP, probably from auto/RV market; 3/8" dia outlet moves about 1 gallon/minute. Operates on higher voltages with increased flow rate for short periods: @ 24 VDC, 1.5 gal/min; @ 35 VDC, 2 gal/min. For non-flammable fluids only because fluid flows thru motor acting as lubricant. Use in fountains, solar water or science fair projects; 4"L x 1.5" dia, 2 lbs. #HAR-12V-IMP, NEW, $5.95; 2/$10.

One Man Raft



LR-1 SURVIVAL RAFT, rugged one-man life raft designed for US aircraft pilots has black rubberized fiber inflatable sides and a non-inflatable nylon rip-stop floor. Inflates to 62"Lx 12"Hx34"W overall using manual inflation tube or CO-2 charge. Fore and aft covers join with velcro strips to keep aves from filling raft. Cover's underside is high visibility "pink" color. Also ballast bags for stability & nylon water anchor; 5 lbs. UNUSED, ~~$69.50~~ $59.50

600 W Power Meter

ME-165/G STANDING WAVE-RATIO POWER METER, designed for use with T-368 400 W transmitter; uses 12/ 600 ohm 50 W non-inductive resistors in paralllel to provide 52 ohm 600 W load with SWR of 1.1:1 or less upto 30 MHz. Has 0-600 Watt meter, function switch Power-Adjust-SWR-Operate, & N connections. Flanged on back for wall mount. 1.5x9.8x9.8, 20 lbs sh.
GOV'T-RECOND, $125.00; Manual, repro $8.50
ME-165/G, USED-GOOD-looking, complete, $45.00
ME-165 (or =) , USED-POOR-looking, $25.00

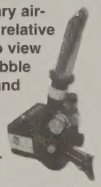
12 VDC Converters

DC to AC CONVERTERS, 12 VDC nominal input produces 117 VAC 60 Hz modified sine wave using switching circuitry. Power converter blocks feature very low standby current, yet capable of fast turn-on when load applied. Full load draw about 100 amps; draw proportional to load. With 4.6" sq cooling fan; User must supply On-Off control & input-output fusing. 4.9x8.3x5, 5 lbs sh. Ryan mfg, NEW:
#DCAC-12D117-500WF, 500 watts out; $129.95
#DCAC-12D117-500NF, 500 W; no fan, $119.95
#DCAC-12D117-750WF, 750 watts out; $149.95
#DCAC-12D117-750NF, 750 W; no fan, $139.95
#DC12V125-4 12 VDC to 125 VDC SUPPLY, 200 W (350 W surge); suitable for small AC/DC tools or as small battery eliminator. 4.6x5x2.2; 3 lbs. $35.

28 VDC 50 A Supply

PP-4763/GRC POWER SUPPLY, produces 28 VDC 50 amps from 115 VAC 22 amps 47-63 Hz 22/11 amp input; solid-state with +/- 0.5% regulation. Has meters 0-50 VDC and 0-80 amps DC; 13.5x 19.5x15, 145 lbs. USED, $225. Manual-repro, $10.

AIRCRAFT SEXTANT



with PERISCOPE, used in larger military aircraft to determine nightflight position relative to the stars. Has eyepiece with cup to view through right angle periscope with bubble level. Controls increase bubble size and adjust lens diffuser plus filters red, green & polarized. Also mechanical timer, 3-digit 100-turn counter dial, & transit case. Requires 28 V AC-DC for lights; 8"Wx13"Hx5.3"D, 23 lbs sh.
#MS28011-1F, used w/ fiberglass case, ~~$75~~. $59.50
#MS28011-W, used, with wood case, $74.50

HF-8040A COUPLER

ROCKWELL HF8040A AUTOMATIC ANTENNA COUPLER for HF-80-Series transmtters-receivers; matches antenna to power amp over 1.6-30 MHz ISB-USB-AM-CW 1 KW average, 1260 W PEP. Has control logic card, vacuum capacitors USLPA-500-6 and USLS-500-5 and large variable inductor coil. Aluminum outdoor enclosure; 115/230 VAC 50/60 Hz. 15x39.3x21, 100 lbs sh.
#622-3515-001, GOV'T-RECONDITIONED, $995.00
Manual for CU2294 (HF8040A) partial-repro, $35.

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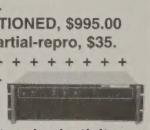


HF-8064 4-CHANNEL HF PRESELECTOR, automatic tuned bandpass filter for HF-8054 receiver & HF-8014 exciter. Provides front-end selectivity and overload protection for receiver; improves cross-modulation & out-of-band intermodulation. Has Reset button plus Overload & Fault indicators. Rear input connections: C (Rx), BNC (Tx); output BNC (Rx-Tx). Requires 100/115/ 215/ 230 VAC 47-63 Hz. 5.3x19x24, 32 lbs. USED, $895.00

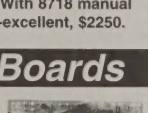
+ +

OTHER HF-80 EQUIPMENT in stock:
HF-8023 (622-3490-207) 1 KW Power Amp, $3000.
HF-8031 1-Phase AC Supply for HF8023, $1500.
HF-8032 3-Phase AC Supply for HF-8023, $750.

+ +

WATKINS-JOHNSON 8716 / 8718 HF RECEIVER, 5 KHz to 29.99999 MHz AM-CW-LSB-USB-ISB continuously tuned on LED display. IF bands 0.3-1-3.2-6-16 KHz; requires 100-115/230 V 48-420 Hz. With 8718 manual copy. 5.3x19x19.4, 43 lbs. USED-excellent, $2250.

QRP Circuit Boards

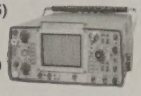


SHORT-WAVE CW EXCITER/ TRANSMITTER by Ryan Communications; tiny 2"x4" high quality circuit boards cover active segments of ham radio low band frequencies @ 1.25 W CCS from 12 VDC power input into 50 ohms resistive. Output increases from 0.75 W-2.5 W as input varied from 10-16 VDC. RF Harmonics > 30 DB. Has 2N3019 power amp trransistor and double Pi-net. Provision for HC-6 -33 xtal; norm-open contact-closure required for output.
#SW-1: 1.8-2.0 MHz, $32. BAND 3.5-4 .0 MHz, $22.
BAND 7-7.5 MHz, $20. BAND 10-10.6 MHz, $25.

- -

#SW-1A SERIES, parallel dual driver-dual power amp for enhanced performance, $26.00 each:
BAND 14.0-14.35 MHz; BAND 18.068-18.168 MHz;
BAND 21.0-21.45 MHz; BAND 28-29.7 MHz

TEK 100 MHz SCOPE



TEKTRONIX 465M (AN/ USM-425) OSCILLOSCOPE, militarized portable dual-trace unit has response DC to 100 MHz and 8x10 CM display. Deflection 5 mv to 5 V/div in 10 calibrated steps, 1-2-5 sequence plus vernier. Vertical modes: TRIG View, 20 MHz BW, CH 1, ALT, Add, Chop, CH 2 or X-Y. Sweep 0.05 usec to 0.5 sec/div in 22 steps plus vernier; delay 0.05 usec to 50 msec/ div. Inputs: 1 Megohm paralleled by 20 pf. Also X10 magnifier, adjustable handle, front cover and manual copy. Requires 100-132/ 200-264 V 48-440 Hz; 7x1.7x21.5, 32 lbs sh. Used-REPARABLE w/trace, $350. CHECKED, $475.

AC-DC Voltmeter

HEWLETT-PACKARD 410C VOLTMETER, solid-state meter has full scale DC ranges +/- 15 mv to 1500 V in 15-50 sequence, AC ranges 0.5 to 300 VAC 0.5-1.5-5 sequence, DC AMP ranges +/-1.5 ua to 150 MA. 1.5-5 sequence and seven RESISTANCE ranges 10 ohm to 10 megohm center scale. AC response 20 Hz to 700 MHz using AC probe. Requires 115/230 VAC 48-440 Hz; 5.1x6.5x11, 12 lbs sh. USED-REPARABLE, $95. CHECKED, $175. MANUAL, partial repro, $10.00

1 to 512 MHz AM-FM

WAVETEK 3007 SIGNAL GENERATOR/ DEVIATION METER, synthesized 1 to 512 MHz AM-FM-CW read on 6-digit lever indicator switches; 1 KHz resolution. Output +13 to -137 dBm (1 V to 0.03 uV). 400 or 1 KHz AM Modulation 0-90%. FM deviation variable 0-500 KHz in two ranges at rates upto 100 KHz. Input 50 ohms; N connections. Requires 115/230 VAC 50-400 Hz. 6x12x15, 28 lbs sh. USED-CHECKED with manual copy, $695.00

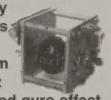
* *

LATE ARRIVALS ! Clean H-P / TEKTRONIX:
HP-181TR MAINFRAME f/ spectrum analyzer, $295.
-1741A SCOPE, 100 MHz storage with third channel trigger view, CHECKED, $450.
-8405A VECTOR VOLTMETER, 1-1000 MHz, $295.
TEK-7844 or 7844R DUAL-BEAM 400 MHz main frame with one each 7A19 600 MHz single trace, 7A26 dual-trace 200 MHz, 7B85 400 MHz delay and 7B92 500 MHz dual delay time base plug-ins; 60 lbs. USED-not calibrated, $1695.
-7B53A DUAL TIME BASE to 100 MHz, $95.
-7B80 DELAYED TIME BASE to 400 MHz, $195.
-7B85 similar to7B80 + CRT readout, $250.

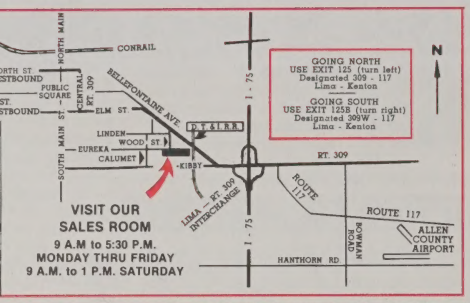
Collins VHF Tx-Rx Set

AN/ARC-73 AIRCRAFT RADIO SET consists of T-879 (Collins 17L-7A) 116-149.95 MHz AM 25 W xmitter, R-1123A (51X2B) 108-151.95 MHz receiver, C-4074 (614U) control and MT-2699 rack. Antenna input 52 ohm; requires 27 VDC (7.3 amp max Tx). Use tubes & transistors. C-4074 sets freq in 50 KHz steps on mechanical counter; also Volume, Squelch & On-Off. Mating connector not available; MT-2699 rack is missing connectors. With Operator's manual & schematics; 9.5x8.5x16, 40 lbs. USED, $149.50
T-879 Tx, $69.50; R-1173A Rx, $75. C-4074, $12.50

GYRO ASSEMBLY



Single axis gyro on a frame assembly which has wiper arm with 10 contacts (5 pairs which can be separated). Deflection approx +30 to -30 deg from vertical. Operates from 115 V 400 Hz or intermittently on 60 Hz with reduced gyro effect at increased heat. Gyro wheel 1.8x1.3; o/a 3.4x4.8x3.4, 2 lbs sh. #SA235-GYRO, used, $20.00



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Command Receiver

R-23/ARC-5 RECEIVER, 190-550 KC; one of 1940's famous aircraft "Command Receivers" which are tuned by using special knob or MC-215 spline (neither available) with remote control box. Has tubes 12A6, 12K8, 3/ 12SK7, 12SR7; requires 250 VDC 60 MA DC and 24 VDC originally supplied by DM-32 24 VDC dynamotor (not supplied). Units are black color and unmodified; however, these are not "clean" looking. 5x 5x11, 15 lbs sh. USED, $39.50; SCHEMATIC, $2. MC-211 Right Angle Spline Adapter for MC-215, $6.

+ +

FT-234A SINGLE TRANSMITTER MOUNT RACK for SCR-274 or ARC-5 transmitters; aluminum finish. Mating connectors PL-154 and PL-156 not available. 3.9x6.6x14.6; 3 lbs sh. UNUSED, $20.00
FT-228A MOUNT PLATE for BC-451 control, $4.00

DUST & TUBE COVERS for BC-456/MD-7 modulators, used-excellent. #7142/7144-A, aluminum $15. #7142/7144-B, black finish, $18.00

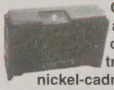
- -

C-18 TUNING CONTROL for ARC-type 12 series; single 0-36 (360 degree) dial and spin crank. Use with MC-215 spline; grey. 4.5x3x2.8, 3 lbs sh. UNUSED, $15.

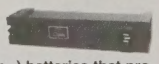
- -

CW-22266 TEST METER for RU-19 WW-2 aircraft receiver; 2.5" rd 0-30 MA DC meter in aluminum flange mount case. 2-pin connection; 2 lbs. UNUSED, $14.95

PRC BATTERY BOXES



CY-6121/PRC-74 BATTERY BOX, aluminum box designed to clip onto RT-794/PRC-74A/B backpack transceiver and will hold ten BB-418 nickel-cadmium cells. Has swivel-legs to steady radio; 8.5x12x3.5, 7 lbs sh. UNUSED, $37.50



CY-7541/PRC-104 BATTERY BOX, plastic box clips onto PRC-104 backpack radio set and will hold 16 silver-zinc (or =) batteries that provide 20-32 VDC. Side unscrews to insert batteries; 3.8x12.5x2.6, 4 lbs sh. UNUSED, $35.00

CY-744/5007 BATTERY BOX for PRC-8-9-10 backpack radios; aluminum; 3x9.5x9, 4 lbs. USED, $10.

NOISE GENERATOR

GENERAL RADIO 1390B RANDOM NOISE GENERATOR, produces wide-band noise of uniform spectrum for telephone transmission, vibration and acoustical tests. Freq: 5 Hz to 5 MHz in ranges 20 KHz, 500 KHz & 5 MHz; multipliers X1, X0.1, X0.01, X0.001. Output variable 30 uv to 3 V @ 20 KHz. Requires 105-125/210-250 VAC 50-60 Hz; 7.5x12.8x9.8, 16 lbs sh. Dark grey face: USED-CHECKED, $100. Light gray face: USED-CHECKED, $125.00

116-150 MHz Filter

TUNABLE VHF FILTER for 116-150 MHz at 150 watts. Has two screwdriver adjust ports and two SMC connections. Sealed can; 1.5x5 x3.3, 2 lbs sh. #MFC-2510-1, NEW, $19.95

PLUG-IN COIL

PLUG-IN RF COIL with adjusting screw for 2.65 to 3.12 MC; fits 5-pin tube socket. 3"Hx1" dia. Coil Winders #CW11-342, unused, $5.95

INFRARED DEVICE

INFRARED RECEIVER/DEMODULATOR as used in televisions and VCRs for remote control; has infrared detector and an IC for signal processing. Requires 5 VDC; 0.7x0.6x0.6, 1 lb sh. #IFRD-TV, NEW, $1.95 ea. 7 for $10.

5-CHANNEL MIXERS

MICRO-TRAK PM5-MX AUDIO CONSOLE, monaural unit for radio & TV audio control has five inputs with Level Control, four of which have two balanced inputs with Cue, Off and Program. Fifth input has five selectable balanced inputs with Cue, Off and Program. Also Master, Monitor, Cue, Headphone and Talkback Level controls. Uses IC/FET switches for input selection and voltage controlled attenuators for setting levels. Also has internal 10 watt amplifier, analog VU-meter, headphone amplifier and built-in speaker. May be production "rejects"as they have minor problems; with manual/schematic. 3.5x19x16, 18 lbs sh.
#PM5-MX-LS, lever switch Cue-Off-Prog, $150.00
#PM5-MX-PB, push button Cue-Off-Prog, $149.50

Volume Level Meter

DAVEN TR924 VOLUME LEVEL INDICATOR, solid-state unit measures audio levels of broadcasting, sound recording, telephone transmission and related equipment. 600 ohm TERM or 12500 ohm BRIDGING inputs accessible via front panel phone jacks or terminal strip on rear. Consists of 4.5" dia VU-meter and step attenuator for levels +20 to -40 db for TERM or +20 to -20 db BRIDGING in 2 db steps. Requires 115 VAC 50-400 Hz; 5.3x19x7.3, 20 lbs sh. USED-excellent with manual, $95.00

R-390A AUDIO AMP

AUDIO AMPLIFIER SECTION for R-390A receiver; includes AF transformers, chokes, C603/606 capacitors and tubes; 8 lbs sh.
#AF-R390A-C, complete / USED-CHECKED, $50.00
#AF-R390A, "AS-IS", less J620 chassis connector and tube shields, $30.00
#VFO-R390A-NT, not tested/no mfg. choice, $22.50

TV-7D TUBE TESTER

Very popular military tube checker and best of TV-7 series tests most military and older commercial receiving & low-power xmitting tubes. Indicates dynamic mutual conductance, emissions, gas, noise & shorts. Test sockets for octal, loctal, 4-,5-6-,7-pin, 7- and 9-pin miniature, acorn, flat and round subminiature tube base sizes. With tube test data book & one test lead. Requires 115 V 50-1000 Hz. 6.3x8.5x15.8, 22 lbs sh. USED-CHECKED, $195. TV-7/ -7A, earlier models, USED-CHECKED, $175. MANUAL for TV-7-A-B-D, partial repro, $10.00

+ +

TUBE TEST ADAPTERS for TV-7, used:
#E104 for sub-mini tubes, $5.00
#E105 for septar 829/832, $7. #E107 for 2C39, $7.

400 W DUMMY LOAD

DA-727 DUMMY LOAD, designed for use with GRC-215 HF radio system. Has Cardwell M9-20 fixed silvered 1/2"W ribbon inductor forming 12-turn 4.3"Lx5" dia coil (tapped 4th turn), Jennings CLFI-50 50 pf 35 KV fixed vacuum capacitor and four 1000 ohm 200 watt non-inductive resistors. Also accessories K&L 30 MHz low pass filter with N connections, 100 W and 400 W ATU fixtures and HV covers. Requires 115 VAC 50-60 Hz; in 13x 21x19 fiberglass case, 65 lbs sh. UNUSED, $175.00

GUY TIE-DOWNS

for securing antenna masts, tents or other items susceptible to wind. Each has 4" based triangular steel head with 1.5"L x 3/8" dia driving shaft on base. Hooked through head is 28"L steel wire with reinforced loop for attaching guy. Tie-down can be driven into ground by hammering a pipe (not supplied) slipped over the driving shaft; 3 lbs sh. #4-TD-98, NEW, $4.00 ea; 4 for $12.00